=> d his

S. 13

(FILE 'HOME' ENTERED AT 09:34:53 ON 10 MAR 2003) SET COST OFF

```
FILE 'REGISTRY' ENTERED AT 09:35:04 ON 10 MAR 2003
                 E BETAINE/CN
L1
               1 S E3
L2
               3 S C5H12NO2/MF AND N N TRIMETHYL AND CARBOX? AND METHANAMIN?
L3
               1 S L2 NOT (LABELED OR D/ELS)
L4
               2 S L1, L3
                 E SILIBIN/CN
L5
               1 S E4
                 E SILYMARIN/CN
L6
               7 S E3, E6, E8, E9, E10, E13, E15
L7
               6 S L6 NOT C4H6O4
L8
               6 S L5, L7
               3 S (D-GLUCOSE OR L-GLUCOSE OR DL-GLUCOSE)/CN
L9
              14 S (D-FRUCTOSE OR L-FRUCTOSE OR DL-FRUCTOSE OR D-GALACTOSE OR L-
L10
               8 S (GLYCEROL OR LIPOIC ACID OR CITRIC ACID OR PHOSPHORIC ACID OR
L11
L12
               3 S (D-METHIONINE OR L-METHIONINE OR DL-METHIONINE)/CN
L13
              1 S TOCOPHEROL/CN
L14
               1 S VITAMIN E/CN
               9 S (SODIUM OR POTASSIUM OR CHLORINE OR PHOSPHORUS OR MAGNESIUM O
L15
                 E SODIUM, ION/CN
L16
               2 S E4,E170
                 E POTASSIUM, ION/CN
L17
               2 S E6, E108
                 E CHLORINE, ION/CN
L18
               4 S E9, E11, E20, E21
                 E PHOSPHORUS, ION/CN
L19
               2 S E4, E25
                 E MAGNESIUM, ION/CN
               2 S E4,E29
L20
                 E ZINC, ION/CN
L21
               2 S E6,E19
                 E CALCIUM, ION/CN
               2 S E10, E23
L22
                 E IRON, ION/CN
L23
               2 S E6, E43
                 E COPPER, ION/CN
L24
               2 S E7, E55
     FILE 'HCAPLUS' ENTERED AT 09:49:25 ON 10 MAR 2003
L25
           4700 S L4 OR L8
                 E SILYMARIN
L26
            637 S E3-E5, E8
L27
              0 S SILY MARIN?
          15024 S BETAINE
L28
            115 S FLAVONOLIGNAN?
L29
                 E LIGNANS/CT
                                                                  Jan Delaval
L30
              42 S E4
                                                               Reference Librarian
                E E3+ALL
                                                           Biotechnology & Chemical Library
L31
           2724 S E2+NT
                                                              CM 1207 - 703-308-4498
L32
            320 S LIGNAN(L) FLAVON?
                                                               jan delaval@usplo.gov
L33
          19242 S L25-L32
L34
            794 S L33 AND CARBOHYDRATE?/SC,SX,CW,BI
L35
            316 S L33 AND (?OLIGOSACCHARIDE? OR ?POLYSACCHARIDE?)
L36
            399 S L33 AND ?SACCHARIDE?
L37
            324 S L33 AND L9
L38
            627 S L33 AND GLUCOSE
L39
            322 S L33 AND L10
L40
            483 S L33 AND (FRUCTOSE OR GALACTOSE OR MANNOSE OR RIBOSE OR INOSIT
```

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1795 S L34-L40
T.41
L42
            359 S L41 AND L11
L43
             90 S L41 AND L12
             43 S L41 AND L13, L14
L44
L45
            651 S L41 AND (GLYCEROL OR GLYCERIN# OR LIPOIE ACID OR CITRATE OR P
L46
            687 S L42-L45
L47
             96 S L46 AND L15-L24
L48
             46 S L46 AND MINERAL
L49
            450 S L46 AND (NA OR K OR CL OR P OR MG OR ZN OR CA OR FE OR CU OR
L50
            454 S L47-L49
                SAV L50 KWON770/A
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=> fil hcaplus FILE 'HCAPLUS' ENTERED AT 13:14:56 ON 10 MAR 2003 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 10 Mar 2003 VOL 138 ISS 11 FILE LAST UPDATED: 9 Mar 2003 (20030309/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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=> d l114 all hitstr tot
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PI

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L114 ANSWER 1 OF 12 HCAPLUS COPYRIGHT 2003 ACS
ΑN
     2002:574972 HCAPLUS
DN
     137:124619
TΤ
     Rehydration compositions containing electrolytes and
     nutrients
ΙN
     Hageman, Robert Johan Joseph; Verlaan, George;
     Smeets, Rudolf Leonardus Lodewijk
PΑ
     Nutricia N.V., Neth.
SO
     PCT Int. Appl., 22 pp.
     CODEN: PIXXD2
DT
     Patent
LA
     English
IC
     ICM A61P001-12
     ICS A61K031-70; A61K031-35
     18-7 (Animal Nutrition)
     Section cross-reference(s):.63
FAN.CNT 1
     PATENT NO.
                      KIND DATE
                                           APPLICATION NO.
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WO 2002058792 A2 20020801 WO 2002-NL63 20020128
WO 2002058792 A3 20021121
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,

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DATE

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PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
             UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
             TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
             CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                                           US 2001-770773
     US 2002176881
                      Α1
                            20021128
                                                             20010126
PRAI US 2001-770773
                       Α
                            20010126
    The invention relates to a fluid that can be used for preventing or
     treating hypohydration and the secondary consequences thereof.
     The fluid comprises one or more carbohydrates and
    minerals and is further characterized by a low osmolarity.
     invention further relates to the use of such a fluid for medical, dietetic
     and other applications. A sportsdrink contained glucose
     8, fructose 6, maltodextrin 20, glycerol 1,
     taurine 1, betaine 1, caffeine 0.1, sodium
    phosphate 0.5, sodium chloride 0.1, and
    potassium citrate 0.3 g per serving 567 mL.
ST
    rehydration drink saccharide electrolyte
    betaine nutrient
ΙT
    Cardiovascular system
        (disease; rehydration drinks contg. electrolytes
        and nutrients)
ΙT
    Dairy products
        (drinks; rehydration drinks contg.
        electrolytes and nutrients)
IT
    Aging, animal
        (elderly; rehydration drinks contg. electrolytes
        and nutrients)
IT
     Drug delivery systems
        (enteric; rehydration drinks contg. electrolytes
        and nutrients)
IT
    Lignans
    RL: FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological
     study); USES (Uses)
        (flavonolignans; rehydration drinks
        contg. electrolytes and nutrients)
TΤ
    Beverages
    Cystic fibrosis
      Dehydration, physiological
     Diarrhea
    Exercise
      Fruit and vegetable juices
    Guarana (Paullinia cupana)
     Intestine, disease
        (rehydration drinks contg. electrolytes and
       nutrients)
ΙΤ
    Betaines
       Carbohydrates, biological studies
      Monosaccharides
      Oligosaccharides, biological studies
       Polysaccharides, biological studies
       Tocopherols
       Vitamins
     RL: FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological
     study); USES (Uses)
        (rehydration drinks contg. electrolytes and
       nutrients)
ΙT
    Hydration, physiological
        (rehydration; rehydration drinks contg.
        electrolytes and nutrients)
IT
     50-69-1, D-Ribose 50-99-7, D-Glucose
     , biological studies 56-81-5, Glycerol, biological
```

studies 57-48-7, D-Fructose, biological studies 58-08-2, Caffeine, biological studies 59-23-4, D-Galactose, biological studies 63-68-3, L-Methionine, biological studies 77-92-9, Citric acid, biological studies 87-89-8, Inositol 107-35-7, Taurine 869-06-7, Magnesium malate 3458-28-4, D-Mannose 6915-15-7 7632-05-5, Sodium phosphate , Malic acid 7647-14-5, Sodium chloride, biological studies 7664-38-2 , Phosphoric acid, biological studies 7778-49-6, 9050-36-6, Maltodextrin Potassium citrate 17482-42-7, Calcium malate 22888-70-6 57828-26-9, Lipoic acid 65666-07-1, Silymarin RL: FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (rehydration drinks contg. electrolytes and nutrients) IT50-69-1, D-Ribose 50-99-7, D-Glucose , biological studies 56-81-5, Glycerol, biological studies 57-48-7, D-Fructose, biological studies 58-08-2, Caffeine, biological studies 59-23-4, D-Galactose, biological studies 63-68-3, L-Methionine, biological studies 77-92-9, Citric acid, biological studies 87-89-8, Inositol 107-35-7, Taurine 3458-28-4, D-Mannose 6915-15-7, Malic acid 7664-38-2, Phosphoric acid, biological studies 22888-70-6 57828-26-9 , Lipoic acid 65666-07-1, Silymarin RL: FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (rehydration drinks contg. electrolytes and nutrients) RN 50-69-1 HCAPLUS D-Ribose (9CI) (CA INDEX NAME) CN

Absolute stereochemistry.

RN 50-99-7 HCAPLUS CN D-Glucose (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 56-81-5 HCAPLUS CN 1,2,3-Propanetriol (9CI) (CA INDEX NAME)

$$\begin{array}{c} \text{OH} \\ | \\ \text{HO-CH}_2\text{-CH-CH}_2\text{-OH} \end{array}$$

RN 57-48-7 HCAPLUS

CN D-Fructose (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 58-08-2 HCAPLUS

CN 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl- (9CI) (CA INDEX NAME)

RN 59-23-4 HCAPLUS

CN D-Galactose (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 63-68-3 HCAPLUS

CN L-Methionine (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 77-92-9 HCAPLUS

CN 1,2,3-Propanetricarboxylic acid, 2-hydroxy- (9CI) (CA INDEX NAME)

RN 87-89-8 HCAPLUS CN myo-Inositol (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 107-35-7 HCAPLUS

CN Ethanesulfonic acid, 2-amino- (9CI) (CA INDEX NAME)

 $H_2N-CH_2-CH_2-SO_3H$ 

RN 3458-28-4 HCAPLUS

CN D-Mannose (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 6915-15-7 HCAPLUS

CN Butanedioic acid, hydroxy- (9CI) (CA INDEX NAME)

RN 7664-38-2 HCAPLUS

CN Phosphoric acid (7CI, 8CI, 9CI) (CA INDEX NAME)

```
RN
     22888-70-6 HCAPLUS
     4H-1-Benzopyran-4-one, 2-[(2R,3R)-2,3-dihydro-3-(4-hydroxy-3-
CN
     methoxyphenyl)-2-(hydroxymethyl)-1,4-benzodioxin-6-yl]-2,3-dihydro-3,5,7-
     trihydroxy-, (2R, 3R)- (9CI) (CA INDEX NAME)
Absolute stereochemistry. Rotation (+).
      HO
              R
              R
                              R
                              R
НО
                         HO
                                      OH
       OMe
                                0
     57828-26-9 HCAPLUS
RN
CN
     Lipoic acid (9CI) (CA INDEX NAME)
    STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN
     65666-07-1 HCAPLUS
CN
     Silymarin (9CI)
                     (CA INDEX NAME)
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
L114 ANSWER 2 OF 12 HCAPLUS COPYRIGHT 2003 ACS
     2002:465733 HCAPLUS
DN
     137:37656
TI
     Health promoting composition containing vitamins
ΙN
     Clayton, Paul
     Aventis Pharma Deutschland G.m.b.H., Germany
PΑ
SO
     PCT Int. Appl., 43 pp.
     CODEN: PIXXD2
DT
     Patent
LA
     English
ΙC
     ICM A23L001-30
CC
     63-6 (Pharmaceuticals)
     Section cross-reference(s): 17
FAN.CNT 2
     PATENT NO.
                      KIND DATE
                                           APPLICATION NO.
     ----
                      ____
                            _____
                                           -----
                       A2
                            20020620
                                           WO 2001-EP14260
PΙ
     WO 2002047493
                                                            20011205
     WO 2002047493
                       А3
                            20021017
            AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM,
             HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,
             LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL,
             PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,
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         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
             CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                                           EP 2000-127644
     EP 1214893
                            20020619
                       Α1
                                                           20001216
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
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IE, SI, LT, LV, FI, RO, MK, CY, AL, TR 20020912

20020624

20001216

20010301

Α1

A5.

Α.

Α

DE 10109798

PRAI EP 2000-127644

AU 2002021934

DE 2001-10109798

DE 2001-10109798 20010301

20011205

AU 2002-21934

```
20011205
     WO 2001-EP14260
                       W
AΒ
     The invention refers to several compns. promoting human health
     comprising one or several but no all of the following compds. a) 800 mcg
     (2664IU) of vitamin A, 500 mg of vitamin C,
     15 mcg of vitamin D, 265 mg (400IU) of vitamin
     E, 50 mcg of vitamin K, b) 10 mg of
     .beta.-carotene, 6 mg of lutein, 5mg of lycopene, 100 mcg of
     zeaxanthin, c) 7.5 mg of vitamin B1, 7.5 mg
     of vitamin B2, 15 mg of niacin, 15 mg of
     pantothenic acid, 7.5 mg of vitamin B6, 200 mcg of
     folic acid, 6.75 mcg of vitamin B12, d) 150 mcg of selenium, 10
     mg of zinc, 100 mg of calcium, 50
     mg of magnesium, 120 mcg of chromium, 2 mg of
     copper, 4 mg of manganese, 100 mcg of iodine, 100 mcg of
     molybdenum, e) 200 mcg of biotin, 450 mg of betaine,
     100 mg of oligoproanthocyanidins (OPC), 150 mg of
     Polyphenol complex, 40 mg of Isofloavones in particular
     genistein and/or daidzein, 600 mg of Omega 3, 4 g of
     Oligonsaccharides (FOS) in particular inulin, and/or oligo-
     fructose and/or beta glucan, 30-60 mg of Co-Q10, f) 500
     mg of glucosamine and possibly addnl. substances for the purpose
     of stabilization and formulation.
ST
    health promoting compn vitamin
IT
    Antiasthmatics
     Antidiabetic agents
     Mental disorder
        (health promoting compn. contg. vitamins)
TT
     Oligosaccharides, biological studies
       Vitamins
     RL: FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological
     study); USES (Uses)
        (health promoting compn. contq. vitamins)
ΙT
     Flavones
     RL: FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological
     study); USES (Uses)
        (isoflavones; health promoting compn. contg. vitamins
IT
     Proanthocyanidins
     RL: FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological
     study); USES (Uses)
        (polymers; health promoting compn. contg. vitamins)
     Phenols, biological studies
ΙT
     RL: FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological
     study); USES (Uses)
        (polyphenols, nonpolymeric; health promoting compn. contg.
        vitamins)
ΙT
     Fatty acids, biological studies
     RL: FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological
     study); USES (Uses)
        (polyunsatd., n-3; health promoting compn. contq.
        vitamins)
IT
     Fatty acids, biological studies
     RL: FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological
     study); USES (Uses)
        (polyunsatd., omega-6; health promoting compn. contq.
        vitamins)
ΙT
        (supplements; health promoting compn. contq. vitamins
ΙT
     50-81-7, Vitamin c, biological studies
                                              58-85-5, Biotin
     59-30-3, Folic acid, biological studies 59-43-8,
     Vitamin bl, biological studies 59-67-6, Niacin,
     biological studies 68-19-9, Vitamin b12
```

```
79-83-4, Pantothenic acid 83-88-5, Vitamin b2,
    biological studies 107-43-7, Betaine 127-40-2,
             144-68-3, Zeaxanthin 303-98-0, Coenzyme q10
                                                             446-72-0.
                486-66-8, Daidzein 502-65-8, Lycopene 1406-18-4,
    Genistein
                3416-24-8, D-Glucosamine 7235-40-7,
    Vitamin e
                                                                 7439-98-7.
     .beta.-Carotene 7439-96-5, Manganese, biological studies
    Molybdenum, biological studies
                                     7440-47-3, Chromium, biological studies
    7440-50-8, Copper, biological studies 7440-66-6
     , Zinc, biological studies
                                 7553-56-2, Iodine, biological
              7782-49-2, Selenium, biological studies 8059-24-3,
                 9041-22-9, .beta.-Glucan 11103-57-4,
    Vitamin b6
    Vitamin a 12001-79-5, Vitamin k
    25702-76-5, Polyfructose
    RL: FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological
    study); USES (Uses)
        (health promoting compn. contg. vitamins)
    50-81-7, Vitamin c, biological studies 58-85-5, Biotin
    59-30-3, Folic acid, biological studies 59-43-8,
    Vitamin b1, biological studies 59-67-6, Niacin,
    biological studies 68-19-9, Vitamin bl2
    79-83-4, Pantothenic acid 83-88-5, Vitamin b2,
    biological studies 107-43-7, Betaine 127-40-2,
    Lutein 144-68-3, Zeaxanthin
                                    303-98-0, Coenzyme q10
                486-66-8, Daidzein
                                    502-65-8, Lycopene 1406-18-4,
    Genistein
                3416-24-8, D-Glucosamine
                                          7235-40-7,
    Vitamin e
     .beta.-Carotene 7439-96-5, Manganese, biological studies
                                     7440-47-3, Chromium, biological studies
    Molybdenum, biological studies
    7440-50-8, Copper, biological studies 7440-66-6
     , Zinc, biological studies
                                7553-56-2, Iodine, biological
    studies 7782-49-2, Selenium, biological studies 8059-24-3,
    Vitamin b6
                 9041-22-9, .beta.-Glucan 11103-57-4,
    Vitamin a 12001-79-5, Vitamin k
    25702-76-5, Polyfructose
    RL: FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological
    study); USES (Uses)
        (health promoting compn. contg. vitamins)
ΙT
    50-81-7, Vitamin c, biological studies 59-30-3
     Folic acid, biological studies 59-43-8, Vitamin bl,
    biological studies 59-67-6, Niacin, biological studies
    68-19-9, Vitamin b12 79-83-4, Pantothenic acid
    83-88-5, Vitamin b2, biological studies 107-43-7
     , Betaine 1406-18-4, Vitamin e
     7440-50-8, Copper, biological studies 7440-66-6
      Zinc, biological studies 8059-24-3, Vitamin
    b6 11103-57-4, Vitamin a 12001-79-5,
    Vitamin k
    RL: FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological
     study); USES (Uses)
        (health promoting compn. contg. vitamins)
RN
     50-81-7 HCAPLUS
    L-Ascorbic acid (8CI, 9CI) (CA INDEX NAME)
CN
```

Absolute stereochemistry.

RN 59-30-3. HCAPLUS

CN L-Glutamic acid, N-[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 59-43-8 HCAPLUS

CN Thiazolium, 3-[(4-amino-2-methyl-5-pyrimidinyl)methyl]-5-(2-hydroxyethyl)-4-methyl-chloride (9CI) (CA INDEX NAME)

Me 
$$CH_2$$
  $CH_2$   $CH_2$ 

● c1-

RN 59-67-6 HCAPLUS

CN 3-Pyridinecarboxylic acid (9CI) (CA INDEX NAME)

RN 68-19-9 HCAPLUS

CN Vitamin B12 (8CI, 9CI) (CA INDEX NAME)

PAGE 1-A

RN 79-83-4 HCAPLUS CN .beta.-Alanine, N-[(2R)-2,4-dihydroxy-3,3-dimethyl-1-oxobutyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 83-88-5 HCAPLUS

CN Riboflavin (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 107-43-7 HCAPLUS

CN Methanaminium, 1-carboxy-N,N,N-trimethyl-, inner salt (9CI) (CA INDEX NAME)

 $Me_3+N-CH_2-CO_2-$ 

RN 1406-18-4 HCAPLUS

CN Vitamin E (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 7440-50-8 HCAPLUS

CN Copper (7CI, 8CI, 9CI) (CA INDEX NAME)

Cu

RN 7440-66-6 HCAPLUS

CN Zinc (7CI, 8CI, 9CI) (CA INDEX NAME)

Zn

RN 8059-24-3 HCAPLUS

CN Vitamin B6 (8CI, 9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 11103-57-4 HCAPLUS

CN Vitamin A (9CI) (CA INDEX NAME)

```
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
     12001-79-5 HCAPLUS
     Vitamin K (8CI, 9CI)
                          (CA INDEX NAME)
CN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
L114 ANSWER 3 OF 12 HCAPLUS COPYRIGHT 2003 ACS
     2002:462447 HCAPLUS
DN
     137:11020
TI
     Health promoting compositions
IN
     Clayton, Paul
PΑ
     Aventis Pharma Deutschland G.m.b.H., Germany
SO
     Eur. Pat. Appl., 18 pp.
     CODEN: EPXXDW
DT
     Patent
LA
     English
IC
     ICM A23L001-30
     ICS A61K035-78
CC
     63-6 (Pharmaceuticals)
     Section cross-reference(s): 18
FAN.CNT 2
     PATENT NO.
                     KIND DATE
                                          APPLICATION NO.
                                                           DATE
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     _____
                                          _____
                     A1 20020619
     EP 1214893
                                          EP 2000-127644 20001216
ΡI
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
                                          WO 2001-EP14260 20011205
    WO 2002047493
                    A2
                           20020620
    WO 2002047493
                     A3
                          20021017
            AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
        W:
             CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM,
             HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,
             LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL,
             PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,
             UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
             CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                    A5 2002<u>06</u>24
    AU 2002021934
                                         AU 2002-21934
                                                           20011205
    US 2002146463
                      Α1
                           20021010
                                          US 2001-14488
                                                           20011214
PRAI EP 2000-127644
                      Α
                           20001216
     DE 2001-10109798 A
                           20010301
    WO 2001-EP14260 W
                           20011205
AΒ
    The invention refers to several compns. promoting human health
     comprising one or several but not all of the following compds.: (a) 800
    mcg (2664 IU) of vitamin A, 500 mg of vitamin
    C, 15 mcg of vitamin D, 265 mg (400 IU) of
    vitamin E, 50 mcg of vitamin K, (b)
     10 mg of .beta.-carotene, 6 mg of lutein, 5 mg
     of lycopene, 100 mcg of zeaxanthin, (c) 7.5 mg of
    vitamin B1, 7.5 mg of vitamin B2, 15
    mg of niacin, 15 mg of pantothenic acid, 7.5 mg
     of vitamin B6, 200 mcg of folic acid, 6.75 mcg of
     vitamin B12, (d) 150 mcg of selenium, 10 mg of
     Zn, 100 mg of Ca, 50 mg of
    Mg, 120 mcg of Cr, 2 mg of Cu, 4 mg
     of Mn, 100 mcg of I, 100 mcg of molybdenum, (e) 200 mcg of biotin, 450
    mg of betaine, 100 mg of
     oligoproanthocyanidins, 150 mg of polyphenol complex, 40
    mg of isoflavones in particular genistein and/or daidzein, 600
    {\tt mg} of omega 3 and 6, 4 g of oligosaccharides in
     particular inulin, and/or oligo-fructose and/or beta glucan,
     30-60 mg of Co-Q10, (f) 500 mg of glucosamine, and
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possibly substances for the purpose of stabilization and formulation.
ST
     health promoting compn vitamin trace element
ΙT
     Oligosaccharides, biological studies
       Vitamins
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (health promoting compns. contg.)
ΙT
     Drug delivery systems
        (health promoting compns. in)
ΙT
     Proanthocyanidins
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (oligo-; health promoting compns. contg.)
     Phenols, biological studies
ΙT
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (polyphenols, nonpolymeric; health promoting compns. contq.)
ΙT
     50-81-7, Vitamin C, biological studies 57-48-7D
     , Fructose, oligo-
                          58-85-5, Biotin 59-30-3, Folic
     acid, biological studies 59-43-8, Vitamin B1,
     biological studies 59-67-6, Niacin, biological studies
     68-19-9, Vitamin B12 83-88-5, Vitamin
     B2, biological studies 107-43-7, Betaine
                                                127-40-2,
             144-68-3, Zeaxanthin
                                     486-66-8, Daidzein
                                                          502-65-8, Lycopene
     Lutein
     1406-16-2, Vitamin D 1406-18-4,
                 7235-40-7, .beta.-Carotene 7439-95-4
     Magnesium, biological studies 7439-96-5, Manganese,
     biological studies 7439-98-7, Molybdenum, biological studies
     7440-47-3, Chromium, biological studies 7440-50-8,
     Copper, biological studies 7440-66-6, Zinc,
     biological studies 7440-70-2, Calcium, biological
               7553-56-2, Iodine, biological studies
                                                        7782-49-2, Selenium,
     biological studies 8059-24-3, Vitamin B6
                                                9005-80-5,
              9041-22-9, .beta.-Glucan 11103-57-4, Vitamin
     A 12001-79-5, Vitamin K
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (health promoting compns. contg.)
              THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT
RE
(1) Kosbab, J; WO 9833494 A 1998 HCAPLUS
(2) Melegari, P; WO 0053176 A 2000 HCAPLUS
(3) Rodney, C; WO 9900135 A 1999 HCAPLUS
(4) Walsh Leo; US 6139872 A 2000 HCAPLUS
     50-81-7, Vitamin C, biological studies 57-48-7D
ΤT
     , Fructose, oligo- 59-30-3, Folic acid, biological
     studies 59-43-8, Vitamin Bl, biological studies
     59-67-6, Niacin, biological studies 68-19-9,
     Vitamin B12 83-88-5, Vitamin B2, biological
     studies 107-43-7, Betaine 1406-16-2,
     Vitamin D 1406-18-4, Vitamin E
     7439-95-4, Magnesium, biological studies
     7440-50-8, Copper, biological studies 7440-66-6
     , Zinc, biological studies 7440-70-2, Calcium
     , biological studies 8059-24-3, Vitamin B6
     11103-57-4, Vitamin A 12001-79-5,
     Vitamin K
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (health promoting compns. contg.)
     50-81-7 HCAPLUS
RN
     L-Ascorbic acid (8CI, 9CI) (CA INDEX NAME)
```

Absolute stereochemistry.

RN 57-48-7 HCAPLUS

CN D-Fructose (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 59-30-3 HCAPLUS

CN L-Glutamić acid, N-[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 59-43-8 HCAPLUS

CN Thiazolium, 3-[(4-amino-2-methyl-5-pyrimidinyl)methyl]-5-(2-hydroxyethyl)-4-methyl-chloride (9CI) (CA INDEX NAME)

Cl-

RN 59-67-6 HCAPLUS

CN 3-Pyridinecarboxylic acid (9CI) (CA INDEX NAME)

RN 68-19-9 HCAPLUS CN Vitamin B12 (8CI, 9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

RN 83-88-5 HCAPLUS CN Riboflavin (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 107-43-7 HCAPLUS

CN Methanaminium, 1-carboxy-N,N,N-trimethyl-, inner salt (9CI) (CA INDEX NAME)

 $Me_3+N-CH_2-CO_2-$ 

RN 1406-16-2 HCAPLUS

CN Vitamin D (8CI, 9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 1406-18-4 HCAPLUS

CN Vitamin E (9CI) (CA INDEX NAME)

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kwon - 09 / 770773
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
    7439-95-4 HCAPLUS
RN
    Magnesium (8CI, 9CI) (CA INDEX NAME)
CN
Mg
    7440-50-8 HCAPLUS
RN
CN
    Copper (7CI, 8CI, 9CI) (CA INDEX NAME)
Cu
    7440-66-6 HCAPLUS
RN
CN
    Zinc (7CI, 8CI, 9CI) (CA INDEX NAME)
Zn
    7440-70-2 HCAPLUS
RN
CN
    Calcium (8CI, 9CI) (CA INDEX NAME)
Ca
    8059-24-3 HCAPLUS
RN
    Vitamin B6 (8CI, 9CI) (CA INDEX NAME)
CN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN
    11103-57-4 HCAPLUS
    Vitamin A (9CI) (CA INDEX NAME)
CN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN
   12001-79-5 HCAPLUS
CN
    Vitamin K (8CI, 9CI) (CA INDEX NAME)
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
L114 ANSWER 4 OF 12 HCAPLUS COPYRIGHT 2003 ACS
AN
    2002:271056 HCAPLUS
DN
    136:299719
ΤI
    Dietary supplement for promoting healthy hormonal
ΙN
    Hastings, Carl W.; Barnes, David J.; Daley, Christine A.
PA
    Reliv' International, Inc., USA
SO
    U.S., 5 pp.
    CODEN: USXXAM
DT
    Patent
    English
LA
    ICM A61K009-14
IC
    ICS A61K047-28; A61K031-56
NCL 424439000
    63-6 (Pharmaceuticals)
    Section cross-reference(s): 1, 2, 18
FAN.CNT 1
                     KIND DATE
    PATENT NO.
                                         APPLICATION NO. DATE
    _____
                          _____
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                                                          _____
PI US 6368617
                      B1 20020409
                                          US 2001-858047
                                                          20010515
PRAI US 2001-858047
                           20010515
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A dietary supplement for promoting healthy hormonal balance in AB adult human subjects, and esp. in elderly subjects, comprises a secretagogue for stimulating the release of human growth hormone (hGH) by the pituitary, and the conversion by hGH to insulin-like growth factor 1 (IGF-1), in combination with 7-keto-dehydroepiandrosterone (7-keto DHEA). The dietary supplement also includes other interacting ingredients for delivering antioxidants for retarding damage at the cellular level caused by the presence of free radicals, and natural herbs for promoting physiol. health. For example, an essentially dry powder constituting a dietary supplement of this invention, to be dissolved in water to provide a daily serving, contained 7-keto-DHEA 25. mg, Symbiotropin 1000 mg, lecithin 200 mg, maltodextrin 7.227 mg, citric acid 640 mg, dipotassium phosphate 25 mg, potassium citrate 25 mg, probiotic blend 100 mg, frucooligosaccharides 400 mg, S-adenosyl-L-methionine 5 mq, acetyl-L-carnitine 100 mg, omega-3 fatty acids (Dry n-3) 125 mg, trimethylglycine 100 mg, coenzyme Q10 7.5 mg, resveratrol (Protykin) 10 mg, .alpha.-lipoic acid 50 mg, L-glutathione 30 mg, N-acetylcysteine 200 mg, and flavoring agents 300 mg. ST ketodehydroepiandosterone growth hormone secretagogue oral dietary supplement aging TΤ Aging, animal Antioxidants Beverages Bifidobacterium bifidum Ginkgo Human Lactobacillus acidophilus Spirulina Spirulina platensis Yam (Dioscorea villosa) (dietary supplement for stimulating release of human growth hormone and promoting healthy hormonal balance in humans) ΙT Hormones, animal, biological studies RL: BSU (Biological study, unclassified); BIOL (Biological study) (dietary supplement for stimulating release of human growth hormone and promoting healthy hormonal balance in humans) TT Carbohydrates, biological studies RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (dietary supplement for stimulating release of human growth hormone and promoting healthy hormonal balance in humans) IΤ Fructooligosaccharides RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (dietary supplement for stimulating release of human growth hormone and promoting healthy hormonal balance in humans) ΙT Aging, animal (elderly; dietary supplement for stimulating release of human growth hormone and promoting healthy hormonal balance in humans) Amino acids, biological studies IT RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (glyco-; dietary supplement for stimulating release of human growth hormone and promoting healthy hormonal balance in humans) IT (leaf powder; dietary supplement for stimulating release of human growth hormone and promoting healthy hormonal balance in humans) TT Ginkgo biloba (leaf power; dietary supplement for stimulating release of human growth hormone and promoting healthy hormonal balance in humans) IT Embryophyta

(medicinal plant, exts.; dietary supplement for stimulating release of



human growth hormone and promoting **healthy** hormonal balance in humans)

IT Drug delivery systems

(oral; dietary supplement for stimulating release of human growth hormone and promoting **healthy** hormonal balance in humans)

IT Fatty acids, biological studies

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (polyunsatd., n-3; dietary supplement for stimulating release of human growth hormone and promoting healthy hormonal balance in humans)

IT Chlorella

(powder; dietary supplement for stimulating release of human growth hormone and promoting **healthy** hormonal balance in humans)

IT Drug delivery systems

(powders; dietary supplement for stimulating release of human growth hormone and promoting **healthy** hormonal balance in humans)

IT Intestinal bacteria

(probiotic, blends; dietary supplement for stimulating release of human growth hormone and promoting **healthy** hormonal balance in humans)

IT Yam (Dioscorea)

(root powder; dietary supplement for stimulating release of human growth hormone and promoting **healthy** hormonal balance in humans)

IT Pituitary gland

(secretagogues; dietary supplement for stimulating release of human growth hormone and promoting **healthy** hormonal balance in humans)

IT Diet

(supplements; dietary supplement for stimulating release of human growth hormone and promoting **healthy** hormonal balance in humans)

IT Lepidium meyenii

(tuber powder; dietary supplement for stimulating release of human growth hormone and promoting **healthy** hormonal balance in humans)

TT 56-12-2D, .gamma.-Aminobutyric acid, glyco derivs. 56-40-6D, Glycine, glyco derivs. 56-85-9D, L-Glutamine, glyco derivs. 70-18-8, L-Glutathione, biological studies 107-43-7, Trimethylglycine 303-98-0, Coenzyme Q10 501-36-0, Resveratrol 518-82-1, Emodin 616-91-1, N-Acetylcysteine 520-27-4, Diosmin 566-19-8 657-27-2D, L-Lysine monohydrochloride, glyco derivs. 1200-22-2, 3040-38-8, Acetyl-L-carnitine .alpha.-Lipoic acid 6151-25-3, Quercetin dihydrate 28319-77-9, L-.alpha.-Glycerylphosphorylcholine 29908-03-0, 56265-06-6D, glyco derivs. S-Adenosyl-L-methionine 408496-12-8, Symbiotropin

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (dietary supplement for stimulating release of human growth hormone and promoting healthy hormonal balance in humans)

IT 59-92-7, biological studies

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (plant-derived source of; dietary supplement for stimulating release of human growth hormone and promoting healthy hormonal balance in humans)

IT 9004-10-8, Insulin, biological studies 67763-96-6, Insulin-like growth factor 1

RL: BSU (Biological study, unclassified); BIOL (Biological study) (regulators; dietary supplement for stimulating release of human growth hormone and promoting healthy hormonal balance in humans)

IT 9004-10-8, Insulin, biological studies 67763-96-6, Insulin-like growth factor 1

RL: BSU (Biological study, unclassified); BIOL (Biological study) (regulators; dietary supplement for stimulating release of human growth

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kwon - 09 / 770773
        hormone and promoting healthy hormonal balance in humans)
RE.CNT
             THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) Cochran; US 6048846 A 2000 HCAPLUS
(2) Jamieson, J; The Role of Somatotroph-Specific Peptides and IGF-1
    Intermediates as an Alternative to High Injections, 1997
(3) Lardy; US 5292730 A 1994 HCAPLUS
(4) Lardy; US 5585371 A 1996 HCAPLUS
(5) Lardy; US 5641766 A 1997 HCAPLUS
```

(6) Partridge; US 5296481 A 1994 HCAPLUS ΙT 107-43-7, Trimethylglycine 1200-22-2, .alpha.-Lipoic

acid RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (dietary supplement for stimulating release of human growth hormone and promoting healthy hormonal balance in humans)

RN 107-43-7 HCAPLUS

Methanaminium, 1-carboxy-N,N,N-trimethyl-, inner salt (9CI) (CA INDEX CN NAME)

Me3+N-CH2-CO2-

1200-22-2 HCAPLUS RN

1,2-Dithiolane-3-pentanoic acid, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

L114 ANSWER 5 OF 12 HCAPLUS COPYRIGHT 2003 ACS 2002:10980 HCAPLUS ΑN DN 136:74665 ΤI Nutritional system for nervous system disorders TN Foreman, David J. PA SO U.S. Pat. Appl. Publ., 6 pp. CODEN: USXXCO DT Patent LA English IC ICM A61K045-00 ICS A61K031-715; A61K035-80; A61K035-78 NCL 424093300 63-6 (Pharmaceuticals) Section cross-reference(s): 17 FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. ---------\_\_\_\_\_ US 2002001575 A1 20020103

US 2001-865040 20010524 PRAI US 2000-207665P P 20000526 A novel compn. for treating nervous system disorders. The compn. is formed by prepg. a mixt. comprising an effective amt. of vitamin B-6, folic acid, vitamin C, magnesium, vitamin B-3, copper, probiotics, fructo-oligosaccharide (FOS), betaine, pancreatin, papain, pepsin, vitamin B-1, vitamin B-2, vitamin B-12, biotin, pantothenic acid, chromium polynicotinate and a digestive support ingredient selected from the group consisting of dandelion root, juniper, aloe vera, burdock,

DATE

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ginger root, artichoke, and kelp. Other ingredients may include: beta
     carotene, vitamin E, selenium, zinc, sea
     vegetation, alfalfa, trace minerals and molybdenum.
    nutrient soln nervous system disorder
ST
IT
    Ginseng (Panax)
        (Siberian; nutritional system for nervous system disorders)
IT
     Barberry (Berberis)
     Elm (Ulmus)
        (bark; nutritional system for nervous system disorders)
IT
    Caulophyllum thalictroides
        (blue cohosh; nutritional system for nervous system
        disorders)
     Eupatorium perfoliatum
IT
        (boneset; nutritional system for nervous system disorders)
IT
    Nervous system
        (disease; nutritional system for nervous system disorders)
IT
    Rose (Rosa)
        (hips; nutritional system for nervous system disorders)
ΤТ
    Alfalfa (Medicago sativa)
    Aloe barbadensis
    Artichoke (Cynara scolymus)
    Burdock
    Capsicum
    Centella asiatica
    Chamomile
    Chrysanthemum parthenium
       Clover (Trifolium pratense)
    Ginkgo biloba
    Hop (Humulus)
    Juniper (Juniperus)
      Nutrients
    Parsley (Petroselinum crispum)
    Peppermint (Mentha piperita)
    Pollen
    Rubus idaeus
    Ruscus aculeatus
    Seaweed
    Spirulina
        (nutritional system for nervous system disorders)
ΙΤ
    Fructooligosaccharides
      Vitamins
    RL: FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological
    study); USES (Uses)
        (nutritional system for nervous system disorders)
ΙT
    Intestinal bacteria
        (probiotic; nutritional system for nervous system disorders)
ΙT
    Asparagus
    Dandelion
    Ginger
    Hydrangea
        (root; nutritional system for nervous system disorders)
IT
    Drug delivery systems
        (solns.; nutritional system for nervous system disorders)
IΤ
    Rumex crispus
        (yellow dock; nutritional system for nervous system
        disorders)
     50-81-7, Vitamin c, biological studies
                                               58-85-5, Biotin
    59-30-3, Folic acid, biological studies 59-43-8,
    Vitamin bl, biological studies 59-67-6D, Nicotinic acid,
    polymers 68-19-9, Vitamin b12 79-83-4,
    Vitamin b3 83-88-5, Vitamin b2, biological
               98-92-0, Vitamin b3 107-43-7,
     studies
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590-46-5, Betaine hydrochloride

Betaine

1406-18-4, Vitamin e 7235-40-7, .beta.-Carotene 7439-95-4, Magnesium, biological 7439-98-7, Molybdenum, biological studies 7440-47-3, Chromium, biological studies 7440-50-8, Copper, biological studies 7440-66-6, Zinc, biological studies 8049-47-6, Pancreatin 7782-49-2, Selenium, biological studies **8059-24-3**, **Vitamin** b6 9001-73-4, Papain 9001-75-6, Pepsin RL: FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (nutritional system for nervous system disorders) TΤ 50-81-7, Vitamin c, biological studies 59-30-3 , Folic acid, biological studies 59-43-8, Vitamin bl, biological studies 59-67-6D, Nicotinic acid, polymers 68-19-9, Vitamin b12 79-83-4, Vitamin b3 83-88-5, Vitamin b2, biological studies 107-43-7, Betaine 1406-18-4, Vitamin e 7439-95-4, Magnesium, biological studies 7440-50-8, Copper, biological studies 7440-66-6 Zinc, biological studies 8059-24-3, Vitamin b6 RL: FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (nutritional system for nervous system disorders) 50-81-7 HCAPLUS RN L-Ascorbic acid (8CI, 9CI) (CA INDEX NAME) CN

Absolute stereochemistry.

RN 59-30-3 HCAPLUS

CN L-Glutamic acid, N-[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 59-43-8 HCAPLUS

CN Thiazolium, 3-[(4-amino-2-methyl-5-pyrimidinyl)methyl]-5-(2-hydroxyethyl)-4-methyl-chloride (9CI) (CA INDEX NAME)

● Cl -

RN 59-67-6 HCAPLUS CN 3-Pyridinecarboxylic acid (9CI) (CA INDEX NAME)

RN 68-19-9 HCAPLUS CN Vitamin B12 (8CI, 9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

RN 79-83-4 HCAPLUS
CN .beta.-Alanine, N-[(2R)-2,4-dihydroxy-3,3-dimethyl-1-oxobutyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

$$HO_2C$$
 $H$ 
 $R$ 
 $OH$ 
 $OH$ 
 $OH$ 
 $OH$ 

RN 83-88-5 HCAPLUS CN Riboflavin (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 107-43-7 HCAPLUS

CN Methanaminium, 1-carboxy-N,N,N-trimethyl-, inner salt (9CI) (CA INDEX NAME)  $Me_3+N-CH_2-CO_2-$ 1406-18-4 HCAPLUS RNVitamin E (9CI) (CA INDEX NAME) CN \*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\* 7439-95-4 HCAPLUS RN Magnesium (8CI, 9CI) (CA INDEX NAME) CN Mg 7440-50-8 HCAPLUS RN Copper (7CI, 8CI, 9CI) (CA INDEX NAME) CN Cu RN 7440-66-6 HCAPLUS CN Zinc (7CI, 8CI, 9CI) (CA INDEX NAME) Zn 8059-24-3 HCAPLUS RN Vitamin B6 (8CI, 9CI) (CA INDEX NAME) CN \*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\* L114 ANSWER 6 OF 12 HCAPLUS COPYRIGHT 2003 ACS 2001:833099 HCAPLUS AN 135:362605 DN Nutritional preparation comprising ribose and folic TΤ acid and medical use thereof ΙN Hageman, Robert Johan Joseph; Smeets, Rudolf Leonardus Lodewijk; Verlaan, George PΑ N.V. Nutricia, Neth. SO PCT Int. Appl., 29 pp. CODEN: PIXXD2 DTPatent LA English ICM A61K031-7004 IC ICS A61K031-522; A23L001-09; A23L001-302; A61P003-00; A61P003-02; A61P039-06 CC 63-6 (Pharmaceuticals) Section cross-reference(s): 17 FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. DATE ---------\_\_\_\_\_ PΙ WO 2001085178 A1 20011115 WO 2001-NL349 20010508 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,

RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US,

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UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
             DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
             BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                            20020716
                                           US 2000-566381
                                                             20000508
     US 6420342
                       В1
    EP 1282426
                       A1
                            20030212
                                           EP 2001-930315
                                                             20010508
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
                                           US 2002-178736
     US 2002183263
                            20021205
                                                             20020625
                      A1
PRAI US 2000-566381
                            20000508
                       Α
     WO 2001-NL349
                       W
                            20010508
AΒ
     Trauma, surgery, inflammation, subfertility, lactation problems, gut
     disorders, infant nutrition, cancer, arthritis and other joint
     problems, vascular problems and cardio- or cerebrovascular problems,
     ischemia, aging, impaired immune function, burns, sepsis, malnutrition,
     problems with liver or kidneys, malaria, cystic fibrosis, migraine,
     neurol. problems, respiratory infections, improvement of sports results,
     muscle soreness, drug intoxication and pain can be treated with a
     nutritional compn. contq. effective amts. of ribose and
     folic acid, optionally combined with other components such as niacin,
     histidine, glutamine, orotate, vitamin B6 and other components.
ST
     nutrition pharmaceutical ribose folic acid
ΙT
     Nervous system
        (Huntington's chorea; nutritional prepn. comprising
        ribose and folic acid and medical use)
ΙT
     Digestive tract
     Nervous system
        (disease; nutritional prepn. comprising ribose and
        folic acid and medical use)
ΙT
     Fertility
     Lactation
        (disorder; nutritional prepn. comprising ribose and
        folic acid and medical use)
IT
     Poisoning, biological
        (drug; nutritional prepn. comprising ribose and
        folic acid and medical use)
IT
     Respiratory tract
        (infection; nutritional prepn. comprising ribose
        and folic acid and medical use)
IT
     Nucleotides, biological studies
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (metab.; nutritional prepn. comprising ribose and
        folic acid and medical use)
IΤ
     Alzheimer's disease
     Analgesics
     Antiarthritics
     Antidepressants
     Antitumor agents
     Burn
     Cardiovascular agents
     Cystic fibrosis
     Fatigue, biological
     Immunity
     Kidney, disease
     Liver, disease
     Malnutrition
     Multiple sclerosis
     Parkinson's disease
     Schizophrenia
     Sepsis
     Surgery
     Tuberculostatics
        (nutritional prepn. comprising ribose and folic
```

```
acid and medical use)
     Fatty acids, biological studies
TT
    RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (nutritional prepn. comprising ribose and folic
        acid and medical use)
IT
    Amino acids, biological studies
    RL: FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological
    study); USES (Uses)
        (nutritional prepn. comprising ribose and folic
        acid and medical use)
TΤ
    Muscle
        (soreness; nutritional prepn. comprising ribose and
        folic acid and medical use)
ΙT
        (supplements; nutritional prepn. comprising ribose
        and folic acid and medical use)
IT
        (trauma; nutritional prepn. comprising ribose and
        folic acid and medical use)
     69-93-2, Uric acid, biological studies
IT
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (antioxidant; nutritional prepn. comprising ribose
        and folic acid and medical use)
    50-99-7, D-Glucose, biological studies
                                              56-85-9,
TΤ
                                     56-87-1, L-Lysine, biological studies
    Glutamine, biological studies
    57-00-1, Creatine 59-43-8, Thiamine, biological studies
    Niacin, biological studies 61-90-5, L-Leucine, biological studies
    63-68-3, L-Methionine, biological studies
                                                63-91-2,
    L-Phenylalanine, biological studies
                                          65-86-1, Orotic acid
    Vitamin b12
                  71-00-1, L-Histidine, biological studies
                                                              72-19-5,
    L-Threonine, biological studies
                                       73-32-5, L-Isoleucine, biological
    studies 77-92-9, Citric acid, biological
    studies 107-35-7, Taurine 107-43-7,
                                        541-15-1, Carnitine
              303-98-0, Coenzyme q10
    1200-22-2, .alpha.-Lipoic acid 7439-95-4,
    Magnesium, biological studies 7440-66-6, Zinc,
    biological studies
                         7782-49-2, Selenium, biological studies
    Vitamin b6
                 14265-44-2, Phosphate, biological studies
    14808-79-8, Sulfate, biological studies
    RL: FFD (Food or feed use); MOA (Modifier or additive use); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (nutritional prepn. comprising ribose and folic
        acid and medical use)
ΙT
    50-69-1, D-Ribose
                         59-30-3, Folic acid, biological
     studies
    RL: FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological
     study); USES (Uses)
        (nutritional prepn. comprising ribose and folic
        acid and medical use)
RE.CNT 5
             THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) Bioenergy Inc; WO 9965476 A 1999 HCAPLUS
(2) Depha Team SRL; WO 9215311 A 1992 HCAPLUS
(3) Naito, A; EP 0652012 A 1995 HCAPLUS
(4) Oster, K; DE 2231989 A 1973 HCAPLUS
(5) Oy Jurilab Ltd; WO 0128365 A 2001 HCAPLUS
    50-99-7, D-Glucose, biological studies 63-68-3
     , L-Methionine, biological studies 77-92-9,
    Citric acid, biological studies 107-35-7,
    Taurine 107-43-7, Betaine 1200-22-2,
     .alpha.-Lipoic acid 7439-95-4, Magnesium, biological
     studies 7440-66-6, Zinc, biological studies
    RL: FFD (Food or feed use); MOA (Modifier or additive use); THU
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(Therapeutic use); BIOL (Biological study); USES (Uses)
 (nutritional prepn. comprising ribose and folic
 acid and medical use)

RN 50-99-7 HCAPLUS

CN D-Glucose (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 63-68-3 HCAPLUS

CN L-Methionine (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 77-92-9 HCAPLUS

CN 1,2,3-Propanetricarboxylic acid, 2-hydroxy- (9CI) (CA INDEX NAME)

RN 107-35-7 HCAPLUS

CN Ethanesulfonic acid, 2-amino- (9CI) (CA INDEX NAME)

H2N-CH2-CH2-SO3H

RN 107-43-7 HCAPLUS

CN Methanaminium, 1-carboxy-N,N,N-trimethyl-, inner salt (9CI) (CA INDEX NAME)

 $Me3^{+}N-CH_{2}-CO_{2}-$ 

RN 1200-22-2 HCAPLUS

CN 1,2-Dithiolane-3-pentanoic acid, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

```
7439-95-4 HCAPLUS
RN
     Magnesium (8CI, 9CI)
                           (CA INDEX NAME)
CN
Mg
     7440-66-6 HCAPLUS
RN
CN
     Zinc (7CI, 8CI, 9CI)
                          (CA INDEX NAME)
Zn
     50-69-1, D-Ribose
ΙT
     RL: FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological
     study); USES (Uses)
        (nutritional prepn. comprising ribose and folic
        acid and medical use)
RN
     50-69-1 HCAPLUS
CN
     D-Ribose (9CI) (CA INDEX NAME)
Absolute stereochemistry.
       OH
             OH
L114 ANSWER 7 OF 12 HCAPLUS COPYRIGHT 2003 ACS
ΑN
     1999:77453 HCAPLUS
DN
     130:152854
ΤI
     Nutritional composition containing methionine
ΙN
     Hageman, Robert Johan Joseph
PΑ
     N.V. Nutricia, Neth.
SO
     PCT Int. Appl., 22 pp.
     CODEN: PIXXD2
DT
     Patent
LA
     English
IC
     ICM A23L001-305
     ICS A61K031-195; A23L001-302; A23L001-304; A61K033-30
CC
     17-6 (Food and Feed Chemistry)
     Section cross-reference(s): 63
FAN.CNT 2
     PATENT NO.
                      KIND DATE
                                           APPLICATION NO.
                                                            DATE
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                            19990128
    WO 9903365
                      A1
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             KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX,
             NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT,
             UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,
             FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
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GN, GW, ML, MR, NE, SN, TD, TG

AU 1998-84658

EP 1998-935394

19980714

19980714

A1 19990210

20000524

R: AT, BE, CH, DE, DK, FR, GB, LI, NL, SE, FI

A1

CM, GA,

AU 9884658

EP 1001685

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JP 2000-502681
     JP 2001510145
                       T2
                            20010731
                                                             19980714
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                            20021003
    US 2002142025
                                                             20000131
PRAI EP 1997-202206
                            19970714
                       Α
    WO 1998-NL408
                       W
                            19980714
    An enteral nutrient compn. for clin. or dietary use, comprises,
AΒ
     in addn. to carbohydrates and proteins or their hydrolyzates the
     following components or their nutritional equiv., per daily
     dosage: methionine (0.6-7 g), cysteine (0.5-2.5 g), folic acid
     (0.4-8 \text{ mg}), pyridoxal (vitamin B6) (3-20 \text{ mg})
     ), zinc (18-120 mg) and at least 400 kcal energy in
     the form of carbohydrates. These amts. are well above the
     Recommended Daily Allowance (RDA) values. Further preferred components
     include lecithin, cyanocobalamine, betaine and magnesium
     , as well as transsulfuration metabolites, ATP enhancers and antioxidants.
ST
    diet therapeutic methionine nutrient; enteral diet
     therapeutic methionine nutrient
ΙT
    Fats and Glyceridic oils, biological studies
    RL: FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological
     study); USES (Uses)
        (algae; nutritional compn. contg. methionine for
        clin. and dietary enteral application)
ΙT
    Skin, disease
     Skin, disease
        (decubitus ulcer; nutritional compn. contg.
        methionine for clin. and dietary enteral application)
TΤ
    Cardiovascular system
        (disease; nutritional compn. contg. methionine for
        clin. and dietary enteral application)
IΤ
        (disorder; nutritional compn. contg. methionine for
        clin. and dietary enteral application)
ΙT
    Nutrients
        (enteral; nutritional compn. contq. methionine for
        clin. and dietary enteral application)
     Fats and Glyceridic oils, biological studies
IT
    RL: FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological
     study); USES (Uses)
        (fish; nutritional compn. contg. methionine for
        clin. and dietary enteral application)
TΤ
    Syrups (sweetening agents)
        (glucose; nutritional compn. contg.
       methionine for clin. and dietary enteral application)
IT
    Wheat
        (hydrolyzate; nutritional compn. contq. methionine
        for clin. and dietary enteral application)
ΙT
    Glycerides, biological studies
    RL: FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological
     study); USES (Uses)
        (medium-chain; nutritional compn. contg. methionine
        for clin. and dietary enteral application)
ΙT
    Proteins, general, biological studies
    RL: FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological
     study); USES (Uses)
        (milk; nutritional compn. contg. methionine for
        clin. and dietary enteral application)
TT
    Aging, animal
    Allergy
    Antitumor agents
    Arthritis
    Autoimmune disease
      Dietary energy
       Dietary fiber
```

Inflammation



Neoplasm Nerve, disease Wound healing (nutritional compn. contg. methionine for clin. and dietary enteral application) ΙT Amino acids, biological studies Canola oil Carbohydrates, biological studies Mineral elements, biological studies Nucleotides, biological studies Phospholipids, biological studies Protein hydrolyzates Proteins, general, biological studies Rape oil Sunflower oil Trace element nutrients Vitamins RL: FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (nutritional compn. contg. methionine for clin. and dietary enteral application) ΙT Lecithins RL: FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (soya; nutritional compn. contg. methionine for clin. and dietary enteral application) TT Diet (therapeutic; nutritional compn. contq. methionine for clin. and dietary enteral application) TT Proteins, specific or class RL: FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (whey; nutritional compn. contg. methionine for clin. and dietary enteral application) ΙT 50-81-7, Ascorbic acid, biological studies 52-90-4, L-Cysteine, biological studies 56-45-1, L-Serine, biological studies 56-85-9, 57-00-1, Creatine L-Glutamine, biological studies 57-50-1, Sucrose, biological studies 58-85-5, Biotin **59-02-9**, .alpha.-Tocopherol 59-30-3, Folic acid, biological studies 59-43-8, Thiamin, biological studies 59-67-6, Niacin, biological studies 62-49-7, Choline **63-68-3**, L-Methionine, biological studies 66-72-8, Pyridoxal 67-48-1. Choline chloride **68-19-9**, **Vitamin** B12 70-26-8, L-Ornithine 73-22-3, L-Tryptophan, biological studies 74-79-3, L-Arginine, biological studies 79-83-4, Pantothenic acid 83-88-5, Riboflavin, biological studies 98-92-0, Nicotinamide 107-35-7, Taurine 107-43-7, Betaine 127-17-3, Pyruvic acid, biological studies 134-03-2, Sodium ascorbate 541-15-1, Carnitine 866-84-2, 1077-28-7, Thioctic acid Potassium citrate 1406-18-4, Vitamin E 7439-89-6, Iron, biological studies 7439-95-4, Magnesium, biological studies 7439-96-5, Manganese, biological studies 7439-98-7, Molybdenum, biological studies 7440-47-3, Chromium, biological studies 7440-50-8, Copper, biological studies 7440-66-67553-56-2, Iodine, biological , Zinc, biological studies studies 7647-14-5, Sodium chloride, biological studies 7733-02-0, **Zinc** sulfate 7758-98-7, **Copper** sulfate, 7782-41-4, Fluorine, biological studies studies 7785-87-7, Manganese sulfate biological studies 7782-49-2, Selenium, biological studies 9050-36-6, Maltodextrin 10043-83-1, Magnesium phosphate 10103-46-5, Calcium phosphate 13410-01-0,

Sodium selenate

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RL: FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological
     study); USES (Uses)
        (nutritional compń. contg. methionine for clin. and
        dietary enteral application)
IΤ
     50-81-7, Ascorbic acid, biological studies
                                                  52-90-4, L-Cysteine,
     biological studies
                        56-45-1, L-Serine, biological studies 56-85-9,
     L-Glutamine, biological studies
                                      57-00-1, Creatine 57-50-1, Sucrose,
     biological studies 58-85-5, Biotin 59-02-9, .alpha.-
     Tocopherol 59-30-3, Folic acid, biological studies
     59-43-8, Thiamin, biological studies 59-67-6, Niacin,
     biological studies
                        62-49-7, Choline 63-68-3, L-
     Methionine, biological studies
                                    66-72-8, Pyridoxal
     Choline chloride 68-19-9, Vitamin B12
                                             70-26-8,
                  73-22-3, L-Tryptophan, biological studies
     L-Ornithine
     L-Arginine, biological studies 79-83-4, Pantothenic acid
     83-88-5, Riboflavin, biological studies
                                              98-92-0, Nicotinamide
     107-35-7, Taurine 107-43-7, Betaine
     127-17-3, Pyruvic acid, biological studies 134-03-2,
                        541-15-1, Carnitine
     Sodium ascorbate
                                             866-84-2,
                        1077-28-7, Thioctic acid 1406-1
     Potassium citrate
     8-4, Vitamin E 7439-89-6, Iron
     , biological studies 7439-95-4, Magnesium, biological
              7439-96-5, Manganese, biological studies
                                                        7439-98-7,
     Molybdenum, biological studies 7440-47-3, Chromium, biological studies
     7440-50-8, Copper, biological studies 7440-66-6
                                7553-56-2, Iodine, biological
     , Zinc, biological studies
             7647-14-5, Sodium chloride, biological studies
     7733-02-0, Zinc sulfate 7758-98-7, Copper sulfate,
     biological studies 7782-41-4, Fluorine, biological studies
                                                                    7782-49-2,
                                  7785-87-7, Manganese sulfate
     Selenium, biological studies
                                                                   9050-36-6,
     Maltodextrin 10043-83-1, Magnesium phosphate
     10103-46-5, Calcium phosphate
                                    13410-01-0,
     Sodium selenate
     RL: FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological
     study); USES (Uses)
        (nutritional compn. contg. methionine for clin. and
        dietary enteral application)
RE.CNT
              THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
(1) Bissbort, S; EP 0532369 A 1993 HCAPLUS
(2) Gitta Carmen Conway; GB 2292522 A 1996 HCAPLUS
(3) Keane, M; US 5215750 A 1993 HCAPLUS
(4) Luca, M; EP 0482715 A 1992
(5) Millman, P; EP 0259167 A 1988 HCAPLUS
     50-81-7, Ascorbic acid, biological studies 59-02-9,
     .alpha.-Tocopherol 59-30-3, Folic acid, biological
     studies 59-43-8, Thiamin, biological studies 59-67-6,
     Niacin, biological studies 63-68-3, L-Methionine,
     biological studies 68-19-9, Vitamin B12
     79-83-4, Pantothenic acid 83-88-5, Riboflavin,
     biological studies 107-35-7, Taurine 107-43-7
     , Betaine 134-03-2, Sodium ascorbate
     1406-18-4, Vitamin E 7439-89-6,
     Iron, biological studies 7439-95-4, Magnesium,
     biological studies 7440-50-8, Copper, biological
     studies 7440-66-6, Zinc, biological studies
     RL: FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological
     study); USES (Uses)
        (nutritional compn. contq. methionine for clin. and
        dietary enteral application)
RN
     50-81-7 HCAPLUS
     L-Ascorbic acid (8CI, 9CI) (CA INDEX NAME)
CN
```

Absolute stereochemistry.

RN 59-02-9 HCAPLUS

CN 2H-1-Benzopyran-6-ol, 3,4-dihydro-2,5,7,8-tetramethyl-2-[(4R,8R)-4,8,12-trimethyltridecyl]-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Me Me 
$$(CH_2)_3$$
  $(CH_2)_3$   $(CH_2)_4$   $(CH_2)_3$   $(CH_2)_4$   $(CH$ 

RN 59-30-3 HCAPLUS

CN L-Glutamic acid, N-[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 59-43-8 HCAPLUS

CN Thiazolium, 3-[(4-amino-2-methyl-5-pyrimidinyl)methyl]-5-(2-hydroxyethyl)-4-methyl-chloride (9CI) (CA INDEX NAME)

• c1-

RN 59-67-6 HCAPLUS CN 3-Pyridinecarboxylic acid (9CI) (CA INDEX NAME)

RN 63-68-3 HCAPLUS CN L-Methionine (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 68-19-9 HCAPLUS CN Vitamin B12 (8CI, 9CI) (CA INDEX NAME)

PAGE 1-A

RN 79-83-4 HCAPLUS
CN .beta.-Alanine, N-[(2R)-2,4-dihydroxy-3,3-dimethyl-1-oxobutyl]- (9CI) (CF INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 83-88-5 HCAPLUS

CN Riboflavin (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 107-35-7 HCAPLUS

CN Ethanesulfonic acid, 2-amino- (9CI) (CA INDEX NAME)

 $H_2N - CH_2 - CH_2 - SO_3H$ 

RN 107-43-7 HCAPLUS

CN Methanaminium, 1-carboxy-N,N,N-trimethyl-, inner salt (9CI) (CA INDEX NAME)

 $Me_3+N-CH_2-CO_2-$ 

RN 134-03-2 HCAPLUS

CN L-Ascorbic acid, monosodium salt (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.

## Na

RN 1406-18-4 HCAPLUS Vitamin E (9CI) (CA INDEX NAME) CN \*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\* RN 7439-89-6 HCAPLUS CN Iron (7CI, 8CI, 9CI) (CA INDEX NAME) Fe RN7439-95-4 HCAPLUS Magnesium (8CI, 9CI) (CA INDEX NAME) CN Μq 7440-50-8 HCAPLUS RN CN Copper (7CI, 8CI, 9CI) (CA INDEX NAME) Cu RN 7440-66-6 HCAPLUS Zinc (7CI, 8CI, 9CI) (CA INDEX NAME) CN

Zn

L114 ANSWER 8 OF 12 HCAPLUS COPYRIGHT 2003 ACS 1999:64536 HCAPLUS AN DN 130:124200 TINutritional composition containing methionine ΙN Hageman, Robert Johan Joseph PΑ N.V. Nutricia, Neth. SO Eur. Pat. Appl., 14 pp. CODEN: EPXXDW DT Patent LA English IC ICM A23L001-305 ICS A61K031-195; A23L001-302; A23L001-304; A61K033-30 CC 17-6 (Food and Feed Chemistry) Section cross-reference(s): 18, 63 FAN.CNT 2

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PATENT NO.
                     KIND DATE
                                        APPLICATION NO.
                                                          DATE
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                     Al 19990120
                                        EP 1997-202206 19970714
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    EP 891719
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                                                           19980714
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PRAI EP 1997-202206
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                      Α
    WO 1998-NL408
                     W
                          19980714
AB
    An enteral food compn. for clin. or dietary use comprises, in
    addn. to carbohydrates and proteins or their hydrolyzates the
    following components or their nutritional equiv., per daily
    dosage: methionine (0.6-7 g), cysteine (0.5-2.5 g), folic acid
     (0.4-8 mg). pyridoxal (vitamin B6) (3-20 mg
    ), zinc (18-120 mg) and at least 400 kcal energy in
    the form of carbohydrates. These amts. are well above the
    Recommended Daily Allowance (RDA) values. Further preferred components
    include lecithin, cyanocobalamine, betaine and magnesium
     , as well as transsulfuration metabolites, ATP enhancers and antioxidants.
ST
    food methionine vitamin mineral
    supplement
ΙT
    Cardiovascular system
        (disease; nutritional compn. contg. methionine)
ΙT
    Caseins, biological studies
    RL: FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological
    study); USES (Uses)
        (metal complexes; nutritional compn. contg.
       methionine)
    Allergy
ΙT
    Antioxidants
    Arthritis
    Autoimmune disease
      Dietary energy
    Immunity
    Inflammation
    Neoplasm
    Nerve, disease
    Surgery
    Wound healing
        (nutritional compn. contg. methionine)
    Amino acids, biological studies
IT
      Carbohydrates, biological studies
    Lecithins
    Lipids, biological studies
      Mineral elements, biological studies
    Nucleotides, biological studies
     Protein hydrolyzates
     Proteins, general, biological studies
      Tocopherols
      Vitamins
    RL: FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological
     study); USES (Uses)
        (nutritional compn. contg. methionine)
IΤ
    Aging, animal
        (premature; nutritional compn. contg. methionine)
ΙT
    Diet
        (therapeutic; nutritional compn. contg. methionine)
IT
     74-79-3, L-Arginine, biological studies
     RL: FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological
     study); USES (Uses)
```

```
(7nutritional compn. contg. methionine)
ΙT
     56-65-5, ATP, biological studies
     RL: FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological
     study); USES (Uses)
        (enhancers of; nutritional compn. contq. methionine
     50-81-7, Vitamin C, biological studies 52-90-4,
IT
     L-Cysteine, biological studies 56-45-1, L-Serine, biological studies
     56-85-9, L-Glutamine, biological studies 57-00-1, Creatine
     Biotin 59-30-3, Folic acid, biological studies 59-43-8
     , Thiamin, biological studies 59-67-6, Niacin, biological
              62-49-7, Choline 63-68-3, L-Methionine,
                         66-72-8, Pyridoxal 68-19-9, Cyanocobalamin
     biological studies
     70-26-8, L-Ornithine 83-88-5, Riboflavin, biological studies
     107-35-7, Taurine 107-43-7, Betaine
     127-17-3, Pyruvic acid, biological studies
                                                  541-15-1, Carnitine
     616-91-1, N-Acetylcysteine 1077-28-7, Thioctic acid 1406-18-4,
                 6027-13-0, Homocysteine 7439-95-4,
                                    7439-96-5, Manganese, biological
    Magnesium, biological studies
     studies 7440-50-8, Copper, biological studies
     7440-66-6, Zinc, biological studies
                                           7782-49-2,
     Selenium, biological studies
                                    9050-36-6, Maltodextrin
     RL: FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological
     study); USES (Uses)
        (nutritional compn. contg. methionine)
RE.CNT
              THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
(1) Bissbort, S; EP 0532369 A HCAPLUS
(2) Gitta, C; GB 2292522 A HCAPLUS
(3) Keane, M; US 5215750 A HCAPLUS
(4) Luca, M; EP 0482715 A
(5) Millman, P; EP 0259167 A HCAPLUS
     50-81-7, Vitamin C, biological studies 59-30-3
     , Folic acid, biological studies 59-43-8, Thiamin, biological
     studies 59-67-6, Niacin, biological studies 63-68-3,
     L-Methionine, biological studies 68-19-9,
    Cyanocobalamin 83-88-5, Riboflavin, biological studies
     107-35-7, Taurine 107-43-7, Betaine
     1406-18-4, Vitamin E 7439-95-4,
    Magnesium, biological studies 7440-50-8, Copper
     , biological studies 7440-66-6, Zinc, biological
     studies
     RL: FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological
     study); USES (Uses)
        (nutritional compn. contg. methionine)
RN
     50-81-7 HCAPLUS
CN
     L-Ascorbic acid (8CI, 9CI) (CA INDEX NAME)
Absolute stereochemistry.
```

59-30-3 HCAPLUS RN

CN L-Glutamic acid, N-[4-[[(2-amino-1,4-dihydro-4-oxo-6pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME) Absolute stereochemistry.

RN 59-43-8 HCAPLUS

CN Thiazolium, 3-[(4-amino-2-methyl-5-pyrimidinyl)methyl]-5-(2-hydroxyethyl)-4-methyl-chloride (9CI) (CA INDEX NAME)

● Cl -

RN 59-67-6 HCAPLUS CN 3-Pyridinecarboxylic acid (9CI) (CA INDEX NAME)

CN

RN 63-68-3 HCAPLUS

L-Methionine (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 68-19-9 HCAPLUS

CN Vitamin B12 (8CI, 9CI) (CA INDEX NAME)

PAGE 1-A

RN 83-88-5 HCAPLUS CN Riboflavin (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.

Υ

RN 107-35-7 HCAPLUS

CN Ethanesulfonic acid, 2-amino- (9CI) (CA INDEX NAME)

 $H_2N-CH_2-CH_2-SO_3H$ 

RN 107-43-7 HCAPLUS

CN Methanaminium, 1-carboxy-N,N,N-trimethyl-, inner salt (9CI) (CA INDEX NAME)

 $Me_3+N-CH_2-CO_2-$ 

RN 1406-18-4 HCAPLUS

CN Vitamin E (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 7439-95-4 HCAPLUS

CN Magnesium (8CI, 9CI) (CA INDEX NAME)

Mg

RN 7440-50-8 HCAPLUS

CN Copper (7CI, 8CI, 9CI) (CA INDEX NAME)

Cu

RN 7440-66-6 HCAPLUS

CN Zinc (7CI, 8CI, 9CI) (CA INDEX NAME)

Zn

L114 ANSWER 9 OF 12 HCAPLUS COPYRIGHT 2003 ACS

AN 1998:744961 HCAPLUS

DN 130:7433

TI Treatment of sickle cell disease, treatment of immune system

```
diseases and other diseases normally associated with sickle cell
    anemia
    Lockett, Curtis
ΙN
PA
    USA
SO
    PCT Int. Appl., 19 pp.
    CODEN: PIXXD2
DT
    Patent
LA
    English
IC
    ICM A61K033-32
         A61K033-24; A61K033-36; A61K033-04; A61K033-06; A61K035-78;
         A61K031-70; A61K031-51; A61K031-44; A61K031-355; A61K031-34;
         A61K031-07
    63-6 (Pharmaceuticals)
    Section cross-reference(s): 1
FAN.CNT 1
    PATENT NO.
                     KIND DATE
                                         APPLICATION NO. DATE
                     ____
                                          ----- -----
PΙ
    WO 9850051
                     A1 19981112
                                          WO 1997-US7122
                                                          19970505
        W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
            DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ,
            LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL,
            PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ,
            VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
        RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB,
            GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN,
            ML, MR, NE, SN, TD, TG
    AU 9729932
                    A1
                         19981127
                                          AU 1997-29932
                                                           19970505
PRAI WO 1997-US7122
                     A
                          19970505
    A maintenance regimen with controlled intake of particular vitamin
     , mineral, and micronutrient formulations, drastically reduces
    the incidence and severity of sickle cell disease crises.
    formulations include vitamin A, vitamin B-1,
    vitamin B-2, vitamin B-6, vitamin B-12,
    vitamin C, vitamin D, vitamin E,
    niacinamide, para-aminobenzoic acid (PABA), pantothenic acid, choline
    bitartrate, inositol, rutin, citrus bioflavonoid complex,
    betaine hydrochloride, hesperidin complex, folic acid, biotin,
    calcium, iron, magnesium, zinc,
    potassium, manganese, iodine, chromium, selenium, and a
    pharmaceutically acceptable carrier, provided at or just below crit. satn.
    levels, detd. for each individual by carefully monitoring tolerance on
    titrn. The daily dose may exceed that necessary as dietary or
    nutritional supplements, and trigger an increase in the prodn. of
    viable Hb, and alters the overall blood profile. Platelet concn. is
    increased up to twice that seen in normal blood, and the red blood cells
    produced display increased resistance to sickling. This enhanced
    biosynthesis is achieved by providing sufficient stores of precursors that
    stimulate low level manuf. without substantial feedback control
    by the upper central nervous system.
ST
    sickle cell disease treatment vitamin mineral
    micronutrient formulation; immune system disease treatment vitamin
    mineral micronutrient formulation
    Flavonoids
ТТ
    RL: BAC (Biological activity or effector, except adverse); BSU (Biological
    study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES
     (Uses)
        (bioflavonoids, citrus, complex; treatment of sickle cell disease and
       treatment of immune system diseases and other diseases normally assocd.
       with sickle cell anemia with vitamin and mineral
       and micronutrient formulations in humans)
ΙT
    Immunity
        (disorder; treatment of sickle cell disease and treatment of immune
```

system diseases and other diseases normally assocd. with sickle cell

anemia with **vitamin** and **mineral** and micronutrient formulations in humans)

IT Organ, animal

Organ, animal

(failure; treatment of sickle cell disease and treatment of immune system diseases and other diseases normally assocd. with sickle cell anemia with **vitamin** and **mineral** and micronutrient formulations in humans)

IT Nutrients

(micronutrients; treatment of sickle cell disease and treatment of immune system diseases and other diseases normally assocd. with sickle cell anemia with **vitamin** and **mineral** and micronutrient formulations in humans)

IT Drug delivery systems

(sustained-release; treatment of sickle cell disease and treatment of immune system diseases and other diseases normally assocd. with sickle cell anemia with **vitamin** and **mineral** and micronutrient formulations in humans)

IT Sickle cell anemia

(treatment of sickle cell disease and treatment of immune system diseases and other diseases normally assocd. with sickle cell anemia with **vitamin** and **mineral** and micronutrient formulations in humans)

IT Mineral elements, biological studies

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(treatment of sickle cell disease and treatment of immune system diseases and other diseases normally assocd. With sickle cell anemia with **vitamin** and **mineral** and micronutrient formulations in humans)

IT 50-81-7, Vitamin C, biological studies 58-85-5, Biotin 59-30-3, Folic acid, biological studies 59-43-8,

Vitamin B-1, biological studies 68-19-9, Vitamin

B-12 79-83-4, Pantothenic acid 83-88-5, Riboflavin,

biological studies 87-67-2, Choline bitartrate, biological studies

**87-89-8**, Inositol 98-92-0, Niacinamide 150-13-0,

p-Aminobenzoic acid 153-18-4, Rutin 590-46-5, Betaine

hydrochloride 1406-16-2, Vitamin D 1406-18-4

, Vitamin E 7439-89-6, Iron,

biological studies 7439-95-4, Magnesium, biological

studies 7439-96-5, Manganese, biological studies 7440-09-7,

Potassium, biological studies 7440-47-3, Chromium, biological

studies 7440-66-6, Zinc, biological studies

**7440-70-2**, Calcium, biological studies 7553-56-2,

Iodine, biological studies 7782-49-2, Selenium, biological studies

8059-24-3, Vitamin B-6 11103-57-4,

Vitamin A 12002-36-7, Hesperidin complex

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(treatment of sickle cell disease and treatment of immune system diseases and other diseases normally assocd. with sickle cell anemia with **vitamin** and **mineral** and micronutrient formulations in humans)

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD RE

- (1) Chima; US 4904678 A 1990 HCAPLUS
- (2) Hider; US 4866052 A 1989 HCAPLUS
- (3) Ohnishi; US 5114972 A 1992 HCAPLUS
- (4) Walaszek; US 5364644 A 1994 HCAPLUS
- (5) Wilburn; US 5108754 A 1992 HCAPLUS

ΙT 50-81-7, Vitamin C, biological studies 59-30-3 , Folic acid, biological studies 59-43-8, Vitamin B-1, biological studies 68-19-9, Vitamin B-12 79-83-4, Pantothenic acid 83-88-5, Riboflavin, biological studies 87-89-8, Inositol 1406-16-2 , Vitamin D 1406-18-4, Vitamin E 7439-89-6, Iron, biological studies 7439-95-4, Magnesium, biological studies 7440-09-7, Potassium, biological studies 7440-66-6, Zinc, biological studies 7440-70-2, Calcium, biological studies 8059-24-3, Vitamin B-6 11103-57-4, Vitamin A RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (treatment of sickle cell disease and treatment of immune system diseases and other diseases normally assocd. with sickle cell anemia

with vitamin and mineral and micronutrient formulations in humans)

50-81-7 HCAPLUS RN

L-Ascorbic acid (8CI, 9CI) (CA INDEX NAME) CN

Absolute stereochemistry.

59-30-3 HCAPLUS RN

L-Glutamic acid, N-[4-[[(2-amino-1,4-dihydro-4-oxo-6-CN pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

59-43-8 HCAPLUS RN

Thiazolium, 3-[(4-amino-2-methyl-5-pyrimidinyl)methyl]-5-(2-hydroxyethyl)-CN 4-methyl- chloride (9CI) (CA INDEX NAME)

Me N Me 
$$CH_2$$
  $CH_2$   $CH_2$   $CH_2$   $OH_2$   $OH_3$ 

● cl-

RN 68-19-9 HCAPLUS CN Vitamin B12 (8CI, 9CI) (CA INDEX NAME)

PAGE 1-A

RN 79-83-4 HCAPLUS
CN .beta.-Alanine, N-[(2R)-2,4-dihydroxy-3,3-dimethyl-1-oxobutyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 83-88-5 HCAPLUS CN Riboflavin (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 87-89-8 HCAPLUS

CN myo-Inositol (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 1406-16-2 HCAPLUS

CN Vitamin D (8CI, 9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 1406-18-4 HCAPLUS

CN Vitamin E (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 7439-89-6 HCAPLUS

CN Iron (7CI, 8CI, 9CI) (CA INDEX NAME)

Fe

RN 7439-95-4 HCAPLUS

CN Magnesium (8CI, 9CI) (CA INDEX NAME)

Mg

RN 7440-09-7 HCAPLUS

CN Potassium (8CI, 9CI) (CA INDEX NAME)

K

RN 7440-66-6 HCAPLUS

CN Zinc (7CI, 8CI, 9CI) (CA INDEX NAME)

Zn

RN 7440-70-2 HCAPLUS

CN Calcium (8CI, 9CI) (CA INDEX NAME)

Ca

RN 8059-24-3 HCAPLUS

CN Vitamin B6 (8CI, 9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 11103-57-4 HCAPLUS

```
CN
     Vitamin A (9CI)
                      (CA INDEX NAME)
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
L114 ANSWER 10 OF 12 HCAPLUS COPYRIGHT 2003 ACS
     1997:321923 HCAPLUS
ΑN
DN
     126:347291
ΤТ
     Vitamins and minerals for the treatment of
     sickle cell disease
     Lockett, Curtis G.
ΙN
PΑ
     Lockett, Curtis G., USA
SO
     U.S., 5 pp.
     CODEN: USXXAM
DT
     Patent
LA
     English
IC
     ICM A61K033-32
         A61K033-24; A61K033-36; A61K033-06; A61K033-04; A61K035-78;
          A61K031-70; A61K031-51; A61K031-44; A61K031-355; A61K031-34;
          A61K031-07
    424639000
NCL
     63-6 (Pharmaceuticals)
     Section cross-reference(s): 1
FAN.CNT 1
     PATENT NO.
                     KIND DATE
                                          APPLICATION NO.
                                                            DATE
                                           _____
     _____
                     ----
     US 5626884
                           19970506
                                          US 1995-516737
                                                            19950818
                     Α
PRAI US 1995-516737
                           19950818
     A maintenance regimen with controlled intake of particular vitamin
     , mineral, and micronutrient formulations, drastically reduces
     the incidence and severity of sickle cell disease crises. The
     formulations include vitamin A, vitamin B1,
     vitamin B2, vitamin B6, vitamin B12,
     vitamin C, vitamin D, vitamin E,
     niacinamide, p-aminobenzoic acid, pantothenic acid, choline
     bitartrate, inositol, rutin, citrus bioflavonoid complex,
     betaine.cntdot.HCl, hesperidin complex, folic acid, biotin,
     calcium, iron, magnesium, zinc,
     potassium, manganese, iodine, chromium, selenium, and a
     pharmaceutically acceptable carrier, provided at or just below crit. satn.
     levels, detd. for each individual by carefully monitoring tolerance on
     titrn. The daily dose may exceed that necessary as dietary or
     nutritional supplements, and trigger an increase in the prodn. of
     viable Hb, and alters the overall blood profile. Platelet concn. is
     increased up to twice that of seen in normal blood, and the red blood
     cells produced display increased resistance to sickling. This enhanced
     biosynthesis is achieved by providing sufficient stores of precursors that
     stimulate low level manuf. without substantial feedback control
     by the upper central nervous system.
ST
     vitamin mineral sickle cell disease
     Flavonoids
ΤТ
     RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES
        (bioflavonoids; vitamins and minerals for treatment
        of sickle cell disease)
ΙT
     Drug delivery systems
        (sustained-release; vitamins and minerals for
        treatment of sickle cell disease)
     Sickle cell anemia
IT
        (vitamins and minerals for treatment of sickle cell
        disease)
     Minerals, biological studies
ΙT
       Vitamins
```

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(vitamins and minerals for treatment of sickle cell disease)

IT 50-81-7, Vitamin C, biological studies 58-85-5,

Biotin; 59-30-3, Folic acid, biological studies 59-43-8

, Vitamin B-1, biological studies 68-19-9,

Vitamin B-12 79-83-4, Pantothenic acid 83-88-5

, Vitamin B-2, biological studies 87-67-2, Choline bitartrate,

biological studies 87-89-8, Inositol 98-92-0,

Niacinamide 150-13-0 153-18-4, Rutin 520-26-3D, Hesperidin,

complexes 590-46-5, Betaine hydrochloride 1406-16-2,

Vitamin D 1406-18-4, Vitamin E

7439-89-6, Iron;, biological studies 7439-95-4

, Magnesium;, biological studies 7439-96-5, Manganese,

biological studies 7440-09-7, Potassium;, biological

studies 7440-47-3, Chromium;, biological studies 7440-66-6,

Zinc;, biological studies 7440-70-2, Calcium;,

biological studies 7553-56-2, Iodine;, biological studies 7782-49-2,

Selenium., biological studies 8059-24-3, Vitamin B-6

11103-57-4, Vitamin A

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(vitamins and minerals for treatment of sickle cell disease)

IT 50-81-7, Vitamin C, biological studies 59-30-3

, Folic acid, biological studies 59-43-8, Vitamin B-1,

biological studies 68-19-9, Vitamin B-12

79-83-4, Pantothenic acid 83-88-5, Vitamin

B-2, biological studies 87-89-8, Inositol

1406-16-2, Vitamin D 1406-18-4,

Vitamin E 7439-89-6, Iron;,

biological studies 7439-95-4, Magnesium;, biological

studies 7440-09-7, Potassium;, biological studies

7440-66-6, Zinc;, biological studies 7440-70-2

, Calcium;, biological studies 8059-24-3,

Vitamin B-6 11103-57-4, Vitamin A

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(vitamins and minerals for treatment of sickle cell disease)

RN 50-81-7 HCAPLUS

CN L-Ascorbic acid (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 59-30-3 HCAPLUS

CN L-Glutamic acid, N-[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 59-43-8 HCAPLUS

CN Thiazolium, 3-[(4-amino-2-methyl-5-pyrimidinyl)methyl]-5-(2-hydroxyethyl)-4-methyl-chloride (9CI) (CA INDEX NAME)

● cl-

RN 68-19-9 HCAPLUS CN Vitamin B12 (8CI, 9CI) (CA INDEX NAME)

PAGE 1-A

RN 79-83-4 HCAPLUS

CN .beta.-Alanine, N-[(2R)-2,4-dihydroxy-3,3-dimethyl-1-oxobutyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

$$HO_2C$$
 $H$ 
 $R$ 
 $OH$ 
 $OH$ 
 $OH$ 
 $OH$ 

RN 83-88-5 HCAPLUS

CN Riboflavin (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.

```
RN 87-89-8 HCAPLUS
CN myo-Inositol (9CI) (CA INDEX NAME)
```

Relative stereochemistry.

RN 1406-16-2 HCAPLUS

CN Vitamin D (8CI, 9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 1406-18-4 HCAPLUS

CN Vitamin E (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 7439-89-6 HCAPLUS

CN Iron (7CI, 8CI, 9CI) (CA INDEX NAME)

Fe

RN 7439-95-4 HCAPLUS

CN Magnesium (8CI, 9CI) (CA INDEX NAME)

Mg

RN 7440-09-7 HCAPLUS

CN Potassium (8CI, 9CI) (CA INDEX NAME)

K

RN 7440-66-6 HCAPLUS

CN Zinc (7CI, 8CI, 9CI) (CA INDEX NAME)

Zn

RN 7440-70-2 HCAPLUS

CN Calcium (8CI, 9CI) (CA INDEX NAME)

Ca

RN 8059-24-3 HCAPLUS

CN Vitamin B6 (8CI, 9CI) (CA INDEX NAME)

```
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN
     11103-57-4 HCAPLUS
CN
     Vitamin A (9CI) (CA INDEX NAME)
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
L114 ANSWER 11 OF 12 HCAPLUS COPYRIGHT 2003 ACS
ΑN
     1997:97785 HCAPLUS
DN
     126:148521
TI
     Vitamin/mineral composition
IN
     Williams, Andrew H.; Williams, Eric A.
     Williams, Andrew H., USA; Williams, Eric A.
PΑ
SO
     U.S., 5 pp.
     CODEN: USXXAM
DT
     Patent
LA
     English
IC
     ICM A61K035-28
     ICS A61K035-26; A61K033-32; A61K033-24; A61K031-70; A61K031-34;
          A61K031-355; A61K031-07
     424579000
NCL
     63-6 (Pharmaceuticals)
     Section cross-reference(s): 18
FAN.CNT 1
                     KIND DATE
     PATENT NO.
                                          APPLICATION NO.
                                                            DATE
     _____
                     ____
                           _____
                                          ------
     US 5597585
                     Α
PT
                            19970128
                                          US 1995-578284
                                                            19951226
PRAI US 1995-578284
                            19951226
     Vitamin/mineral nutritional mixt. in the
     form of a dry powder sol. in water was described.
ST
     vitamin mineral compn
IT
     Spleen
     Thymus gland
        (conc.; vitamin/mineral compn.)
    Mineral elements, biological studies
IΤ
      Vitamins
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (vitamin/mineral compn.)
    50-81-7, Vitamin c, biological studies 52-90-4,
ΤT
     L-Cysteine, biological studies 58-85-5, Biotin 59-30-3, Folic
     acid, biological studies 59-43-8, Vitamin b1,
     biological studies 59-51-8, Methionine 59-67-6
     , Niacin, biological studies 60-00-4, Edta, biological studies
     62-49-7, Choline 68-19-9, Vitamin bl2 79-83-4
     , Pantothenic acid 83-88-5, Vitamin b2, biological
     studies 87-89-8, Inositol 98-92-0, Niacinamide
     107-43-7, Betaine 1406-18-4, Vitamin
     e 7439-95-4, Magnesium, biological studies
     7439-96-5, Manganese, biological studies 7440-09-7,
     Potassium, biological studies
                                    7440-47-3, Chromium, biological
     studies 7440-66-6, Zinc, biological studies
     7782-49-2, Selenium, biological studies 8059-24-3,
     Vitamin b6 11103-57-4, Vitamin a
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (vitamin/mineral compn.)
     50-81-7, Vitamin c, biological studies 59-30-3
     , Folic acid, biological studies 59-43-8, Vitamin bl,
     biological studies 59-51-8, Methionine 59-67-6
     , Niacin, biological studies 68-19-9, Vitamin b12
     79-83-4, Pantothenic acid 83-88-5, Vitamin b2,
     biological studies 87-89-8, Inositol 107-43-7
     , Betaine 1406-18-4, Vitamin e
     7439-95-4, Magnesium, biological studies
     7440-09-7, Potassium, biological studies
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7440-66-6, Zinc, biological studies 8059-24-3,

Vitamin b6 11103-57-4, Vitamin a

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(vitamin/mineral compn.)

50-81-7 HCAPLUS RN

CN L-Ascorbic acid (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.

59-30-3 HCAPLUS RN

L-Glutamic acid, N-[4-[[(2-amino-1,4-dihydro-4-oxo-6-CNpteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 59-43-8 · HCAPLUS

Thiazolium, 3-[(4-amino-2-methyl-5-pyrimidinyl)methyl]-5-(2-hydroxyethyl)-CN 4-methyl- chloride (9CI) (CA INDEX NAME)

Cl-

RN 59-51-8 HCAPLUS CN

Methionine (9CI) (CA INDEX NAME)

$$\begin{array}{c} \text{NH}_2 \\ + \\ \text{MeS-CH}_2 - \text{CH}_2 - \text{CH-CO}_2 \text{H} \end{array}$$

RN 59-67-6 HCAPLUS CN 3-Pyridinecarboxylic acid (9CI) (CA INDEX NAME)

RN 68-19-9 HCAPLUS CN Vitamin B12 (8CI, 9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

RN 79-83-4 HCAPLUS

CN .beta.-Alanine, N-[(2R)-2,4-dihydroxy-3,3-dimethyl-1-oxobutyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 83-88-5 HCAPLUS

CN Riboflavin (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 87-89-8 HCAPLUS

CN myo-Inositol (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 107-43-7 HCAPLUS

CN Methanaminium, 1-carboxy-N,N,N-trimethyl-, inner salt (9CI) (CA INDEX NAME)

 $Me_3+N-CH_2-CO_2-$ 

RN 1406-18-4 HCAPLUS

CN Vitamin E (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 7439-95-4 HCAPLUS

CN Magnesium (8CI, 9CI) (CA INDEX NAME)

Mg

RN 7440-09-7 HCAPLUS

CN Potassium (8CI, 9CI) (CA INDEX NAME)

K

RN 7440-66-6 HCAPLUS

CN Zinc (7CI, 8CI, 9CI) (CA INDEX NAME)

Zn

RN 8059-24-3 HCAPLUS

CN Vitamin B6 (8CI, 9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 11103-57-4 HCAPLUS

CN Vitamin A (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

L114 ANSWER 12 OF 12 HCAPLUS COPYRIGHT 2003 ACS

AN 1990:62458 HCAPLUS

DN 112:62458

TI Absorption of water and solute from glucose-electrolyte solutions in the human jejunum: effect of citrate or betaine

AU Leiper, John B.; Maughan, R. J.

- Dep. Environ. Occup. Med., Univ. Med. Sch., Foresterhill/Aberdeen, AB9 CS 2ZD, UK SO Scandinavian Journal of Gastroenterology (1989), 24(9), 1089-94 CODEN: SJGRA4; ISSN: 0036-5521
- DT Journal
- LA English
- 63-5 (Pharmaceuticals) CC

Section cross-reference(s): 1

- AΒ Using a modified perfusion system, water and solute absorption in the normal human intestine from two effervescent glucose-electrolyte solns., contg. either citrate or betaine-HCl, was examd. and the absorption rates were compared with those from a commonly used bicarbonate-contg. oral rehydration soln. Absorption of citrate (355 .mu.mol/cm/h) and betaine (313 .mu.mol/cm/h) occurred from the resp. solns. The inclusion of 46 mmol/L citrate or 36 mmol/L betaine in effervescent oral rehydration solns. had no effect on water or solute absorption.
- ST oral rehydration soln glucose electrolyte; intestine absorption water solute rehydration soln; citrate betaine intestine absorption rehydration
- TΤ Electrolytes

(rehydration oral solns. contg., water and solute absorption by human intestine from, betaine and citrate effect on)

TT Intestine, metabolism

(jejunum, water and solute absorption by human, from glucose-electrolyte rehydration solns., betaine and citrate effect on)

Hydration, biological IT

(re-, glucose-electrolyte solns. for, water and solute absorption by human intestine from, betaine and citrate effect on)

IT Pharmaceutical dosage forms

> (tablets, effervescent, rehydration oral soln. from, water and solute absorption by human intestine from, betaine and citrate effect on)

ΙT 7732-18-5

RL: BIOL (Biological study)

(electrolytes, rehydration oral solns. contg., water and solute absorption by human intestine from, betaine and citrate effect on)

77-92-9, biological studies IT 107-43-7

RL: BIOL (Biological study)

(rehydration oral soln. contg., water and solute absorption by human intestine in relation to)

77-92-9, biological studies 107-43-7 TT

RL: BIOL (Biological study)

(rehydration oral soln. contg., water and solute absorption by human intestine in relation to)

## => fil wpix

FILE 'WPIX' ENTERED AT 13:27:12 ON 10 MAR 2003 COPYRIGHT (C) 2003 THOMSON DERWENT

FILE LAST UPDATED: 7 MAR 2003 <20030307/UP> MOST RECENT DERWENT UPDATE: 200316 <200316/DW> DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE

- >>> SLART (Simultaneous Left and Right Truncation) is now available in the /ABEX field. An additional search field /BIX is also provided which comprises both /BI and /ABEX <<<
- >>> PATENT IMAGES AVAILABLE FOR PRINT AND DISPLAY <<<

- >>> FOR DETAILS OF THE PATENTS COVERED IN CURRENT UPDATES, SEE http://www.derwent.com/dwpi/updates/dwpicov/index.html <<< >>> FOR A COPY OF THE DERWENT WORLD PATENTS INDEX STN USER GUIDE, PLEASE VISIT: http://www.stn-international.de/training center/patents/stn guide.pdf <<< >>> FOR INFORMATION ON ALL DERWENT WORLD PATENTS INDEX USER GUIDES, PLEASE VISIT: http://www.derwent.com/userguides/dwpi guide.html <<< => d all abeq tech abex tot 1125 L125 ANSWER 1 OF 3 WPIX (C) 2003 THOMSON DERWENT 2002-608421 [65] WPIX DNC C2002-172023 TΙ Fluid useful in the treatment of hypohydration comprises methylamine, flavanolignan. DC HAGEMAN, R J J; SMEETS, R L L; VERLAAN, G ΙN (HAGE-I) HAGEMAN R J J; (SMEE-I) SMEETS R L L; (VERL-I) VERLAAN G; PΑ (NUTR-N) NUTRICIA NV CYC 94 WO 2002058792 A2 20020801 (200265)\* EN 22p A61P001-12 <--PΙ RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW W: AE AG AL AM AU AZ BA BB BG BR BY BZ CA CH CN CO CR DM DZ EC ES GB GD GE GH GM HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SL TJ TM TN TR TZ UA US UZ VN YU ZA ZM ZW US 2002176881 A1 20021128 (200281) A61K047-00 WO 2002058792 A2 WO 2002-NL63 20020128; US 2002176881 A1 US 2001-770773 ADT 20010126 PRAI US 2001-770773 20010126 ICM A61K047-00; A61P001-12 IC ICS A61K031-35; A61K031-70 WO 200258792 A UPAB: 20021010 AB NOVELTY - A fluid (I) comprises methylamine and/or flavanolignan, at least one digestible carbohydrate, and at least one mineral. DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for: (1) A concentrate for preparation of (I); and (2) a method for manufacturing the concentrate for preventing or treating hypohydration. ACTIVITY - Antidiarrheic. MECHANISM OF ACTION - Insulin response modulator. USE - In the treatment of hypohydration, gut disorder, cystic fibrosis, cardiovascular disease and other symptomatically or physiologically related disorder, dehydration of a subject (e.g. elderly person) who is exposed to a high temperature and/or physical exercise; for medical use (all claimed). In the prevention and/or treating the loss of bodily water in humans and/or animals, water loss due to excessive sweating, water loss due to diarrhea.
  - ADVANTAGE (I) has hypotonic osmolarity of at most 300 mOsm/l and dry mass content of at most 9 wt.%. (I) has a pH of 2.5 - 6.8 and nitrogen content of less than 3 g/l. (I) improves the speed and efficiency of waterabsorption by the body. (I) helps the body to maintain glucose- and mineral homeostasis and contributes to the reduction of negative side-effects associated with the disturbance in the homeostasis of water, minerals, glucose and/or other endogenous compounds. (I) exhibits modulating effect on the insulin response thus maintaining the glucose balance in the blood plasma. (I) reduces the risk of diarrhea and risk of developing muscle cramps.

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Dwg.0/0
FS
     CPI
FA
     AB; DCN
     CPI: B04-C02; B04-D01; B05-A01A; B05-A01B; B05-A03A; B05-B02A; B05-C07;
MC
          B06-A02; B07-A02; B07-B03; B10-A07; B10-A09B; B10-B02D; B10-C02;
          B10-E04C; B12-M07; B14-C03; B14-E10; B14-F01; B14-F02
TECH
                    UPTX: 20021010
     TECHNOLOGY FOCUS - ORGANIC CHEMISTRY - Preferred Components: The
     carbohydrate comprises (g/1) glucose and at least one monosaccharide
     selected from fructose, galactose (0.5), mannose, ribose (0.5) or inositol
     Preferred Composition: (I) comprises digestible carbohydrate in a
     concentration of 10 - 80 g/l and has an average chain length of 3 - 50
     monosaccharide units. At least 50% of the carbohydrate is in the form of
     oligosaccharide or polysaccharide. The amount of fructose and mannose
     together is 0.05 - 0.6 mole/mole glucose. The methylamine is
     betaine and is present in a concentration of 0.1 - 20 \text{ g/l}.
     Preferred Fluid: (I) further comprises (q/l) glycerol (0.1 -
     20), lipoic acid (at least 20 mg/l), vitamin
     (preferably tocopherol), citrate, phosphate,
     malate, taurine (0.2 - 2) and/or caffeine (0.1
     - 1) and methionine.
     TECHNOLOGY FOCUS - BIOLOGY - Preferred Components: The flavanolignan is
     silibin (0.1 - 8 g). The source of silibin is
     silymarin (0.2 - 10 \text{ g/l}).
     TECHNOLOGY FOCUS - PHARMACEUTICALS - Preferred Concentrate: The
     concentrate is in the form of pre-mix, powder, agglomerate, fluid, syrup,
     gel, tablet or capsule.
     TECHNOLOGY FOCUS - INORGANIC CHEMISTRY - Preferred Components: The mineral
     (0.1 - 30 \text{ g/l}) is selected from sodium, potassium, chloride,
     phosphate, magnesium (at least 100 mg/l), zinc (at least 10 mg/l),
     calcium (at least 300 mg/l), iron (at least 5 mg/l) or copper.
ABEX
     ADMINISTRATION - (I) is administered orally in the form of water solution,
     fruit juice, whey dairy drink, beverage or as fluid by tube or enterally.
     (I) is administered before, during or after the subject is subjected to
     surgery (all claimed).
     EXAMPLE - A drink to support a person suffering from diarrhea was prepared
     by dissolving glucose (g) (6), ribose (1), inositol (0.2), fructose (2),
     maltodextrin (5), betaine (2), folic acid (microg), methionine
     (0.3), sodium (2.1), potassium (0.8), chloride (2.9) and citrate
     (1.9) in water (1 liter).
L125 ANSWER 2 OF 3 WPIX (C) 2003 THOMSON DERWENT
     2000-331250 [29]
ΑN
                        WPIX
DNC C2000-100433
TΤ
     Serumfree medical solution (I) comprises e.g. an aqueous nutrient and
     electrolyte solution, a glycosaminoglycan, a deturgescent agent and an
     energy source, maintains and enhances the preservation of mammalian
     tissues.
DC
     A96 B01 B04 B05 D22
ΙN
     SKELNIK, D L; SKELNIK, D A
PΑ
     (SKEL-I) SKELNIK D L; (BAUL) BAUSCH & LOMB SURGICAL INC
CYC
     29
PΙ
     EP 1000541
                   A1 20000517 (200029)* EN
                                              27p
                                                      A01N001-02
         R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT
            RO SE SI
     AU 9957108
                  A
                      20000511 (200031)
                                                      A01N001-02
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CA 2288540

A1 20000505 (200039)

EN

A01N001-02

JP 2000198701 A 20000718 (200040) 19p A01N001-02
US 6153582 A 20001128 (200063) A61K038-00

ADT EP 1000541 A1 EP 1999-308702 19991102; AU 9957108 A AU 1999-57108
19991028; CA 2288540 A1 CA 1999-2288540 19991103; JP 2000198701 A JP
1999-313063 19991102; US 6153582 A US 1998-186580 19981105

PRAI US 1998-186580 19981105

IC ICM A01N001-02; A61K038-00
ICS A61K009-08; A61K031-70; C12N005-00

AB EP 1000541 A UPAB: 20000617

NOVELTY - Serum free medical solution (I) comprises e.g. an aqueous nutrient and electrolyte solution, a glycosaminoglycan, a deturgescent agent, a buffer system, an antioxidant, membrane stabilizing agents, an antibiotic or antimycotic agent, ATP or energy precursors, nutrient cell supplements, coenzymes and enzyme supplements and an energy source.

DETAILED DESCRIPTION - Serum free medical solution (I) comprises:

- (a) an aqueous nutrient and electrolyte solution;
- (b) a glycosaminoglycan;
- (c) a deturgescent agent;
- (d) a energy source;
- (e) a buffer system;
- (f) an antioxidant;
- (g) membrane stabilizing agents;
- (h) an antibiotic or antimycotic agent;
- (i) ATP or energy precursors;
- (j) nutrient cell supplements;
- (k) coenzymes and enzyme supplements;
- (1) nucleotide precursors;
- (m) hormonal supplements;
- (n) non-essential amino acids;
- (o) trace minerals and trace elements; and
- (p) growth factors (animal, animal recombinant, human recombinant or natural).

An INDEPENDENT CLAIM is also included for a method of treating eye tissue for use in eye surgery comprising keeping the tissue in contact with a solution (I) in the period elapsing between removing the tissue from a donor and implanting it into a recipient.

USE - The composition maintains and enhances the preservation of mammalian tissues, preferably mammalian eye tissues, before or after surgery, surgical use of a laser, or degenerative eye conditions (all claimed). In a comparative study of a serum free medical solution and standard MEM 2% FBS medium with human corneas. The results showed that after 14 and 28 days in serum free medium were able to maintain viable corneal endothelium equal in performance to corneas stored in MEM 2% FBS. The serum free medium was effective in maintaining normal corneal cell function and metabolism making it suitable as an organ culture preservation medium.

ADVANTAGE - The solution is serum free. Serum can be an agent for transmission of diseases. In a comparative study of a serum free medical solution and standard MEM 2% FBS medium with human corneas. The results showed that after 14 and 28 days in serum free medium the tissues were able to maintain viable corneal endothelium equal in performance to corneas stored in MEM 2% FBS. The serum free medium was effective in maintaining normal corneal cell function and metabolism making it suitable as an organ culture preservation medium. Dwg.0/0

FS CPI

FA AB; DCN

MC CPI: A12-V; B01-C01; B01-C04; B01-C05; B02-A; B02-C; B02-G; B02-K; B02-N; B02-O; B02-P; B02-S; B02-V; B03-A; B03-B; B03-D; B03-E; B03-H; B04-B01B; B04-C01; B04-C02; B04-C03; B04-J01; B04-L01; B04-L02; B04-N01; B04-N02; B05-A03; B05-B01D; B05-B01P; B05-B02C; B05-C01; B05-C02; B05-C05; B05-C07; B05-C08; B07-D03; B07-D04C; B10-A07; B10-B02; B10-B04; B10-C04E; B12-M06; B12-M07; B14-N03;

D09-A01

TECH

UPTX: 20000617

TECHNOLOGY FOCUS - PHARMACEUTICALS - Preferred Solution: (I) contains components which maintains and enhances the preservation of eye tissues at low to physiological temperatures (2-38degreesC, preferably 16-38degreesC) with a physiological pH. (a) is minimal essential medium (MEM), TC199 medium and a combination of the two. (b) is chondroitin, dermatin, heparin, heparan, or keratan sulfate, or hyaluronic acid in an amount of 0.001 mg/ml-1.0 g/ml. (c) dextran, dextran sulfate, hydroxypropylmethyl cellulose, carboxymethylcellulose, cell gum, sodium alginate, albumin, hydroxyethyl starch, hydroxyethyl cellulose, dextrose, glucose or cyclodextrin in an amount of 0.001 mg-1 g/ml. (d) is glucose, pyruvate, sucrose, fructose or dextrose and (e) is sodium bicarbonate, sodium acetate, sodium citrate, sodium phosphate or HEPES buffer, both in an amount of 0.1 mM-10 mM. (f) is L-ascorbic acid, 2-mercaptoethanol, glutathione, alpha-tocopherol, alpha-tocopherol acetate, alpha-tocopherol phosphate and selenium in an amount of 0.001 microM-10 mM. (q) is vitamin A, vitamin B, retinoic acid, trans-retinoic acid, retinol acetate, ethanolamine, phosphoethanolamine, transferrin, lecithin, B-sitosterol or L-alpha-phosphatidyl choline in an amount of 0.001 pg/ml-500 mg/ml. (h) is gentamycin, kanamycin, neomycin, vancomycin, obramycin, cllndamycin, streptomycin, levofloxacin, penicillin, cyclosporin, amphotericin B or nystatin in an amount of 0.001 mug/ml-100 mg/ml. (i) is adenosine, inosine, adenine, flavin adenine dinucleotide, uridine 5'-triphosphate sodium, 5'-methylcytosine, beta-NAD or beta-NADP sodium in an amount of 0.001 mM-10 mM. (j) is alynyl-glutamine, glycyl-glutamine, L-amino-n-butyric acid, L-arginine, D-biotin, betaine hydrochloride, D-carnitine, calciferol, carotene, cholesterol, L-cystine, L-cystiene, L-glutamic acid, D-glucosamine, glucuronolactone, L-hydroxyproline, hypoxanthine, L-inositol, glycine, L-ornithine, L-proline, L-serine, myo-inositol, menadione, iacin, nicotinic acid, p-aminobenzoic acid, D-panthothenic acid, pyridoal-5-phosphate, pyridoxine hydrochloride, taurine, thymidine, xanthine or vitamin B12 in an amount 0.001 microM-10mM. (k) is acetyl coenzyme A, cocarboxylase, coenzyme A, coenzyme Q10 or coenzyme K and (1) is 2'-deoxyadenosine, 2'-deoxycytidine hydrochloride, 2'-deoxyguanosine, 2'-deoxy-D-ribose or ribose, both in an amount of 0.001 microM-10 mM. (m) is beta-estradiol, progesterone, testosterone, cortisol, corticosterone, thyroxine, thyroid stimulating hormone or calcitonin in an amount of 0.001 pg/100 mg/ml. (n) is L-alanine, L-asparagine, L-aspartic acid, L-glutamic acid, glycine, L-proline or L-serine in an amount of 0.001 microg/ml-100 mg/ml. (o) is CuSO4.5H2O, ZnSO4.7H2O, sodium selenite, ferric citrate, MnSO4.H2O, NaSIO3.9H2O, molybdic acid, NH4VO3, NiSO4.6H2O, SnCl2, AqNO3, Ba(C2H3O2)2, KBr, CdCl2, CoCl2, CrCl3, NaF, GeO2, KL, RbCl or ZrOCl2.8H2O in an amount of 0.001 pg/ml-0.100 mg/ml. (p) is PDGF-BB, PDGF-AA, nerve growth factor, nerve growth factor-beta, stem cell factor, transforming growth factor-alpha, transforming growth factor-beta, vascular endothelial growth factor, beta-endothelial cell growth factor, epidermal growth factor, epithelial neutrophil activating peptide, heparin binding EGF-like growth factor, fibroblastic growth factor-acidic or basic, IGF-I, IGF-II, keratinocyte growth factor, platelet-derived endothelial cell growth factor, insulin or hepacyte growth factor in an amount 0.001 pg/ml-0.100 ma/ml.

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L125 ANSWER 3 OF 3 WPIX (C) 2003 THOMSON DERWENT
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AN 1997-108289 [10] WPIX

DNC C1997-034493

TI New vitamin and mineral compsn. in water soluble dry powder or aq. form - helps in e.g. cell building and cell repair and improve control of e.g. infections, heart disease, cholesterol, physiological stress and hypoglycaemia.

DC B05 D13

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WILLIAMS, A H; WILLIAMS, E A
IN
     (WILL-I) WILLIAMS A H; (WILL-I) WILLIAMS E A
PΑ
CYC
    1
                   A 19970128 (199710)*
                                                g2
                                                      A61K035-28
PΙ
     US 5597585
ADT
     US 5597585 A US 1995-578284 19951226
PRAI US 1995-578284
                      19951226
IC
     ICM A61K035-28
         A61K031-07; A61K031-34; A61K031-355; A61K031-70;
     ICS
          A61K033-24; A61K033-32; A61K035-26
AB
     US
          5597585 A UPAB: 19970307
     Compsn. of multivitamins and minerals comprises: vitamin A (33000-40000
     I.U.); vitamin C (4000-5000 mg); vitamin E (600-650 I.U.); vitamin B1
     (20-200 mg); vitamin B2 (10-150 mg); vitamin B6 (30-150 mg); vitamin B12
     (30-250 mg); niacin (40-70 mg); niacinamide (20-50 mg); pantothenic acid
     (20-500 \text{ mg}); folic acid (0.3-0.6 \text{ mg}); biotin (30-100 \text{ mg}); choline
    (400-725 mg); inositol (40-100 mg); DL-methionine (160-1000 mg);
     magnesium (300-420 mg); potassium (100-420 mg); manganese (5-10 mg); zinc
     (15-30 mg); chromium (130-200 mg); selenium (200-250 mg); betaine
     (120-130 mg); L-cysteine (660- 1000 mg); thymus concentrate (30-100 mg);
     and spleen concentrate (30-100 mg). The compsn. opt. comprises 50-100 mg
     ethylenediamine tetraacetic acid and is pref. in the form of a dry water
     soluble powder, or in aq. form.
          USE - The dry compsn. may be dissolved in water to provide a health
     drink of vitamins and minerals. The aq. compsns. can help in e.g. cell
     building and cell repair, and improve control of infections, heart
     disease, cholesterol, physiological stress, hypoglycaemia, adrenal
     weakness, arthritis, menopause, candidiasis, premenstrual syndrome,
     hypertension, osteoporosis, anaemia and cataracts.
     Dwg.0/0
FS
     CPI
FΑ
MC
     CPI: B03-A; B03-B; B03-C; B03-D; B03-E; B03-F; B03-H; B05-A01A; B05-A01B;
          B05-A03A; B07-D04C; B10-B01B; B10-B02D; B10-B02J; B10-E04C; B14-E11;
          D03-H01T2
=> d his
     (FILE 'HOME' ENTERED AT 12:22:11 ON 10 MAR 2003)
                SET COST OFF
     FILE 'HCAPLUS' ENTERED AT 12:22:26 ON 10 MAR 2003
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## ACT KWON770/A

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L1	(	1)SEA	FILE=REGISTRY	ABB=ON	PLU=ON	BETAINE/CN
L2	(	3)SEA	FILE=REGISTRY	ABB=ON	PLU=ON	C5H12NO2/MF AND N N N TRIMETH
L3	(	1)SEA	FILE=REGISTRY	ABB=ON	PLU=ON	L2 NOT (LABELED OR D/ELS)
L4	(	2)SEA	FILE=REGISTRY	ABB=ON	PLU=ON	(L1 OR L3)
L5	(	1)SEA	FILE=REGISTRY	ABB=ON	PLU=ON	SILIBININ/CN
L6	(	7)SEA	FILE=REGISTRY	ABB=ON	PLU=ON	(SILYMARIN/CN OR "SILYMARIN I
L7	(	6) SEA	FILE=REGISTRY	ABB=ON	PLU=ON	L6 NOT C4H6O4
L8	(	6) SEA	FILE=REGISTRY	ABB=ON	PLU=ON	(L5 OR L7)
L9	(	3)SEA	FILE=REGISTRY	ABB=ON	PLU=ON	(D-GLUCOSE OR L-GLUCOSE OR DL
L10	(	14)SEA	FILE=REGISTRY	ABB=ON	PLU=ON	(D-FRUCTOSE OR L-FRUCTOSE OR
L11	(	8)SEA	FILE=REGISTRY	ABB≒ON	PLU=ON	(GLYCEROL OR LIPOIC ACID OR C
L12	(	3)SEA	FILE=REGISTRY	ABB=ON	PLU=ON	(D-METHIONINE OR L-METHIONINE
L13	(	1)SEA	FILE=REGISTRY	ABB=ON	PLU=ON	TOCOPHEROL/CN
L14	(	1)SEA	FILE=REGISTRY	ABB=ON	PLU=ON	VITAMIN E/CN
L15	(	9)SEA	FILE=REGISTRY	ABB=ON	PLU≕ON	(SODIUM OR POTASSIUM OR CHLOR
L16	(	2)SEA	FILE=REGISTRY	ABB=ON	PLU=ON	("SODIUM, ION (NA1+)"/CN OR "
L17	(	2)SEA	FILE=REGISTRY	ABB=ON	PLU=ON	("POTASSIUM, ION (K1+)"/CN OR
L18	(	4)SEA	FILE=REGISTRY	ABB=ON	PLU=ON	("CHLORINE, ION (CL1+)"/CN OR
L19	(	2)SEA	FILE=REGISTRY	ABB=ON	PLU=ON	("PHOSPHORUS, ION (P1+)"/CN O

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2) SEA FILE=REGISTRY ABB=ON PLU=ON
                                                   ("MAGNESIUM, ION (MG1+)"/CN O
L20 (
L21 (
              2) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                                                   ("ZINC, ION (ZN1+)"/CN OR "ZI
                                           PLU=ON: ("CALCIUM, ION (CA1+)"/CN OR
L22 (
              2) SEA FILE=REGISTRY ABB=ON
L23 (
              2) SEA FILE=REGISTRY ABB=ON
                                          PLU=ON
                                                   ("IRON, ION (FE1+)"/CN OR "IR
L24 (
              2) SEA FILE=REGISTRY ABB=ON PLU=ON
                                                  ("COPPER, ION (CU1+)"/CN OR "
L25 (
           4700) SEA FILE=HCAPLUS ABB=ON PLU=ON L4 OR L8
L26 (
            637) SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON
                                                  (SILYMARIN/BI OR SILYMARINE/BI
L27 (
              O) SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON
                                                  SILY MARIN?
          15024) SEA FILE=HCAPLUS ABB=ON
L28 (
                                          PLU=ON
                                                  BETAINE
L29 (
            115) SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON
                                                  FLAVONOLIGNAN?
L30 (
             42) SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON
                                                  "LIGNANS (L) FLAVONO-"/CT
L31 (
           2724) SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON
                                                  LIGNANS+NT/CT
L32 (
            320) SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON
                                                  LIGNAN(L)FLAVON?
L33 (
          19242) SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON
                                                  (L25 OR L26 OR L27 OR L28 OR L
                                                 L33 AND CARBOHYDRATE?/SC, SX, CW
L34 (
            794) SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON
                                          PLU=ON
L35 (
            316) SEA FILE=HCAPLUS ABB=ON
                                                 L33 AND (?OLIGOSACCHARIDE? OR
L36 (
            399) SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON
                                                 L33 AND ?SACCHARIDE?
L37 (
            324) SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON
                                                 L33 AND L9
            627) SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON
                                                 L33 AND GLUCOSE
L38 (
            322) SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON
                                                 L33 AND L10
L39 (
            483) SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON
                                                  L33 AND (FRUCTOSE OR GALACTOSE
L40 (
L41 (
           1795) SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON
                                                  (L34 OR L35 OR L36 OR L37 OR L
                                          PLU=ON
                                                  L41 AND L11
L42 (
           359) SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON
L43 (
             90) SEA FILE=HCAPLUS ABB=ON
                                                 L41 AND L12
L44 (
            43) SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON
                                                 L41 AND (L13 OR L14)
L45 (
            651) SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON
                                                 L41 AND (GLYCEROL OR GLYCERIN#
L46 (
            687) SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON
                                                  (L42 OR L43 OR L44 OR L45)
L47 (
            96) SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON
                                                  L46 AND (L15 OR L16 OR L17 OR
L48 (
             46) SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON
                                                 L46 AND MINERAL
L49 (
            450) SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON
                                                  L46 AND (NA OR K OR CL OR P OR
L50
            454 SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON
                                                  (L47 OR L48 OR L49)
               -----
L51
             30 S L50 AND (DEHYDRAT? OR REHYDRAT? OR HYPOHYDRAT? OR HYDRAT?)
L52
             12 S L51 AND (FOOD? OR FEED? OR PHARMACEUT? OR PHARMACOL? OR COSME
                E DEHYDRATION/CT
L53
           2464 S E19
                E E19+ALL
                E E2+ALL
L54
           1011 S E2+NT
                E E12+ALL
          20797 S E2, E3, E1+NT
L55
L56
             10 S L51 AND L53-L55
L57
             18 S L52, L56
                SEL DN AN 1 L57
L58
              1 S L57 AND E1-E3
     FILE 'REGISTRY' ENTERED AT 12:31:21 ON 10 MAR 2003
L59
              1 S 6915-15-7
     FILE 'HCAPLUS' ENTERED AT 12:31:38 ON 10 MAR 2003
L60
             24 S L50 AND L59
L61
             22 S L60 NOT L51
L62
              2 S L60 NOT L61
L63
              1 S L62 AND REHYDRAT?
L64
              1 S L58, L63
             74 S L50 AND (NUTRI? OR FOOD? OR FEED?)/SC,SX,CW
L65
L66
             1 S L65 AND L53-L55
             19 S L50 AND (BEVERAG? OR JUICE?)
L67
                E BEVERAGE/CT
                E E6+ALL
          51873 S E2+NT
L68
L69
          44930 S E82+NT
                E E82+ALL
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E E9 ALL
                E DAIRY/CT
                E E12+ALL
L70
          49688 S E3+NT
                E FOOD/CT
L71
          50568 S E3
                E NUTRITION/CT
                E E9+ALL
L72
          78148 S E4, E3+NT
L73
         309996 S E26+NT OR E28+NT OR E35+NT
            131 S L50 AND L68-L73
L74
L75
            160 S L65, L67, L74 NOT L51
            124 S L75 NOT COSMETIC?/SC
L76
             35 S L76 AND (ARTHRIT? OR NUTRI? OR DIETARY? OR MEDICINAL OR MATRI
L77
                SEL' DN AN 2 3 4 5 17 18 19 24 25
L78
              9 S E1-E27
             10 S L58, L64, L66, L78 AND L51-L58, L60-L78
L79
                E VERLAAN G/AU
L80
              4 S E3, E4
                E HAGEMAN R/AU
L81
             33 S E3, E6, E10-E13
                E SMEETS R/AU
L82
             23 S E3, E8, E9, E15, E16
                E LODEWIJK/AU
                E SMEETS L/AU
             52 S L80-L82
L83
              4 S L83 AND L50, L59
L84
                E NUTRICIA/PA, CS
T.85
             63 S E3-E15
             63 S NUTRICIA?/PA,CS
L86
              4 S L85, L86 AND L50, L59
L87
             11 S L79, L84, L87
L88
             91 S L83, L85, L86 NOT L88
L89
     FILE 'REGISTRY' ENTERED AT 13:02:50 ON 10 MAR 2003
L90
             25 S (BETAINE OR SILYMARIN?)/CN
L91
             15 S L90 AND 1/NC
L92
              1 S C5H12NO2/MF AND N N N TRIMETHYL NOT (LABELED OR D/ELS)
     FILE 'HCAPLUS' ENTERED AT 13:03:57 ON 10 MAR 2003
L93
          16475 S L91 OR L92 OR BETAINE OR SILYMARIN? OR SILIBIN?
            385 S FLAVONOLIGNAN? OR LIGNAN? (L) FLAVO?
L94
L95
          16776 S L93, L94
            670 S L95 AND (?SACCHARIDE? OR CARBOHYDRATE?)
L96
     FILE 'REGISTRY' ENTERED AT 13:05:49 ON 10 MAR 2003
L97
             14 S (GLUCOSE OR FRUCTOSE OR GALACTOSE OR MANNOSE OR RIBOSE OR INO
     FILE 'HCAPLUS' ENTERED AT 13:06:17 ON 10 MAR 2003
L98
            482 S L97 AND L95
            940 S (?GLUCOSE? OR ?FRUCTOSE? OR ?GALACTOSE? OR ?MANNOSE? OR ?RIBO
L99
L100
           1431 S L96, L98, L99
     FILE 'REGISTRY' ENTERED AT 13:08:42 ON 10 MAR 2003
             10 S (GLYCEROL OR CAFFEINE OR LIPOIC ACID OR CITRIC ACID OR PHOSPH
L101
     FILE 'HCAPLUS' ENTERED AT 13:08:52 ON 10 MAR 2003
L102
            397 S L101 AND L100
            540 S L100 AND (GLYCEROL OR GLYCERIN# OR PROPANETRIOL OR CAFFEINE O
L103
L104
            569 S L102, L103
     FILE 'REGISTRY' ENTERED AT 13:10:13 ON 10 MAR 2003
L105
             1 S VITAMIN "E"/CN
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	FILE	'HCAPLUS' ENTERED AT 13:10:42 ON 10 MAR 2003
L106		55 S L104 AND (L105 OR VITAMIN "E" OR ?TOCOPHER?)
L107		569 S L104,L106
L108		12 S L107 AND L53-L55
		SEL DN AN 1 11
L109		2 S E1-E6
L110		12 S L88, L109
		11 S L110 AND (FOOD? OR FEED? OR BEVERAG? OR NUTRI? OR ?DRINK? OR
		1 S L110 NOT L111
		12 S L110-L112
L114		12 S L113 AND (VITAMIN? OR MINERAL? OR SODIUM OR POTASSIUM OR CHLO
	FILE	'HCAPLUS' ENTERED AT 13:14:56 ON 10 MAR 2003
	FILE	'WPIX' ENTERED AT 13:15:41 ON 10 MAR 2003
		E WO2002058792/PN
L115		1 S E3
L116		12639 S A61K031-70/IC, ICM, ICS
L117		
		47 S L116 AND (?FLAVONOLIGNAN? OR ?FLAVONO?(L)?LIGNAN? OR BETAIN?
		47 S L116 AND (?FLAVONOLIGNAN? OR ?FLAVONO?(L)?LIGNAN? OR BETAIN? E SILYMARIN/DCN
		E SILYMARIN/DCN
Т.118		E SILYMARIN/DCN E E4+ALL
L118		E SILYMARIN/DCN E E4+ALL 15 S E2
L118		E SILYMARIN/DCN E E4+ALL 15 S E2 E SILYBIN/DCN
		E SILYMARIN/DCN E E4+ALL 15 S E2 E SILYBIN/DCN E E3+ALL
L119		E SILYMARIN/DCN E E4+ALL 15 S E2 E SILYBIN/DCN E E3+ALL 10 S L116 AND (L118 OR ?SILYMARIN? OR ?SILIBIN? OR ?SILYBIN?)
L119 L120		E SILYMARIN/DCN E E4+ALL  15 S E2 E SILYBIN/DCN E E3+ALL  10 S L116 AND (L118 OR ?SILYMARIN? OR ?SILIBIN? OR ?SILYBIN?)  50 S L117,L119
L119 L120 L121		E SILYMARIN/DCN E E4+ALL  15 S E2 E SILYBIN/DCN E E3+ALL  10 S L116 AND (L118 OR ?SILYMARIN? OR ?SILIBIN? OR ?SILYBIN?)  50 S L117,L119  17 S L120 AND (GLYCEROL OR GLYCERIN? OR PROPANETRIOL OR (LIPOIC OR
L119 L120 L121 L122		E SILYMARIN/DCN E E4+ALL  15 S E2 E SILYBIN/DCN E E3+ALL  10 S L116 AND (L118 OR ?SILYMARIN? OR ?SILIBIN? OR ?SILYBIN?)  50 S L117,L119  17 S L120 AND (GLYCEROL OR GLYCERIN? OR PROPANETRIOL OR (LIPOIC OR 3 S R023/M0,M1,M2,M3,M4,M5,M6 AND L121
L119 L120 L121 L122 L123		E SILYMARIN/DCN E E4+ALL  15 S E2 E SILYBIN/DCN E E3+ALL  10 S L116 AND (L118 OR ?SILYMARIN? OR ?SILIBIN? OR ?SILYBIN?)  50 S L117,L119  17 S L120 AND (GLYCEROL OR GLYCERIN? OR PROPANETRIOL OR (LIPOIC OR 3 S R023/M0,M1,M2,M3,M4,M5,M6 AND L121  14 S L120 AND (B05-A? OR C05-A? OR B05-C? OR C05-C?)/MC
L119 L120 L121 L122 L123 L124		E SILYMARIN/DCN E E4+ALL  15 S E2 E SILYBIN/DCN E E3+ALL  10 S L116 AND (L118 OR ?SILYMARIN? OR ?SILIBIN? OR ?SILYBIN?)  50 S L117,L119  17 S L120 AND (GLYCEROL OR GLYCERIN? OR PROPANETRIOL OR (LIPOIC OR 3 S R023/M0,M1,M2,M3,M4,M5,M6 AND L121  14 S L120 AND (B05-A? OR C05-A? OR B05-C? OR C05-C?)/MC  2 S L120 AND (B12-M07 OR C12-M07)/MC
L119 L120 L121 L122 L123		E SILYMARIN/DCN E E4+ALL  15 S E2 E SILYBIN/DCN E E3+ALL  10 S L116 AND (L118 OR ?SILYMARIN? OR ?SILIBIN? OR ?SILYBIN?)  50 S L117,L119  17 S L120 AND (GLYCEROL OR GLYCERIN? OR PROPANETRIOL OR (LIPOIC OR 3 S R023/M0,M1,M2,M3,M4,M5,M6 AND L121  14 S L120 AND (B05-A? OR C05-A? OR B05-C? OR C05-C?)/MC

FILE 'WPIX' ENTERED AT 13:27:12 ON 10 MAR 2003